~~Drawings~~

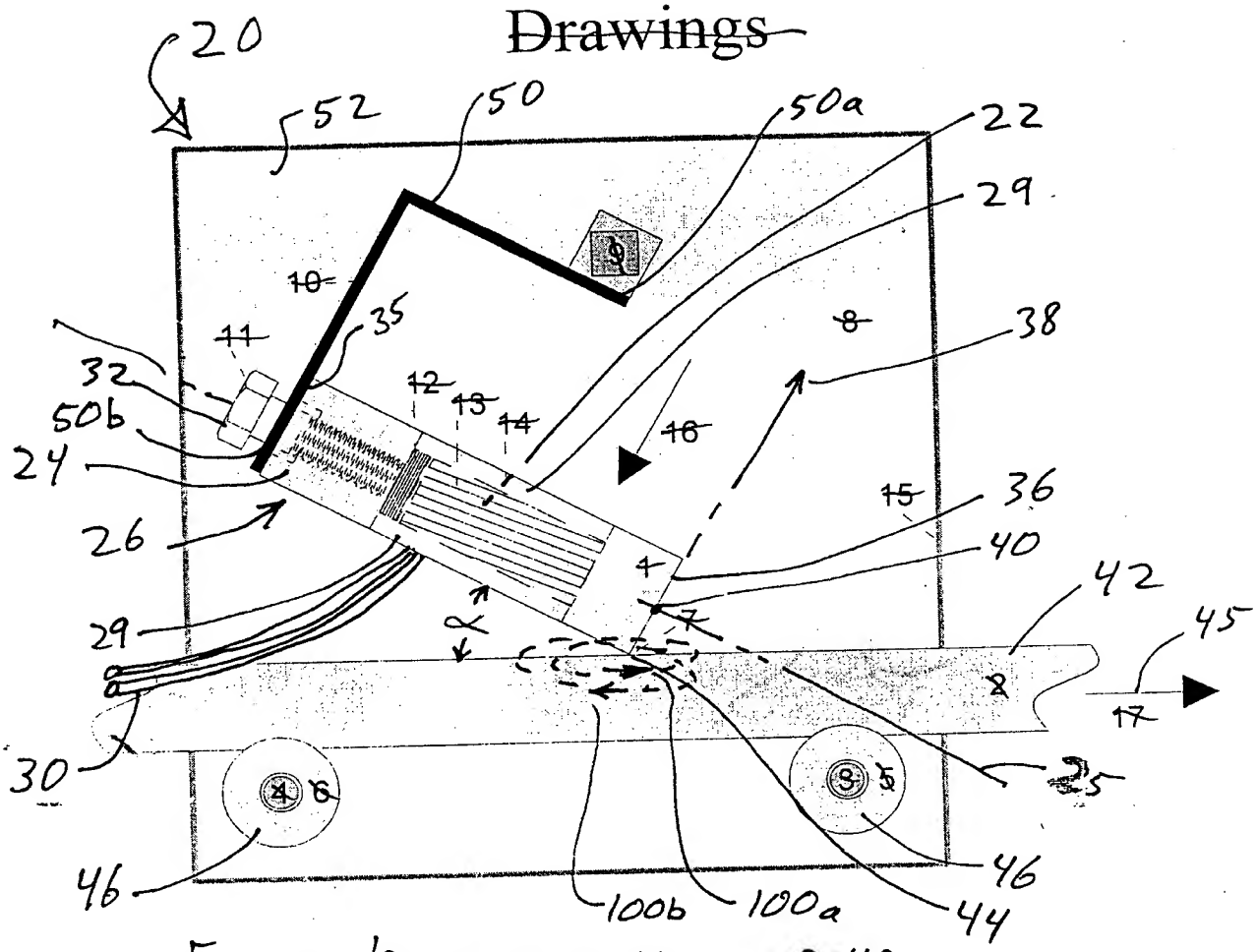
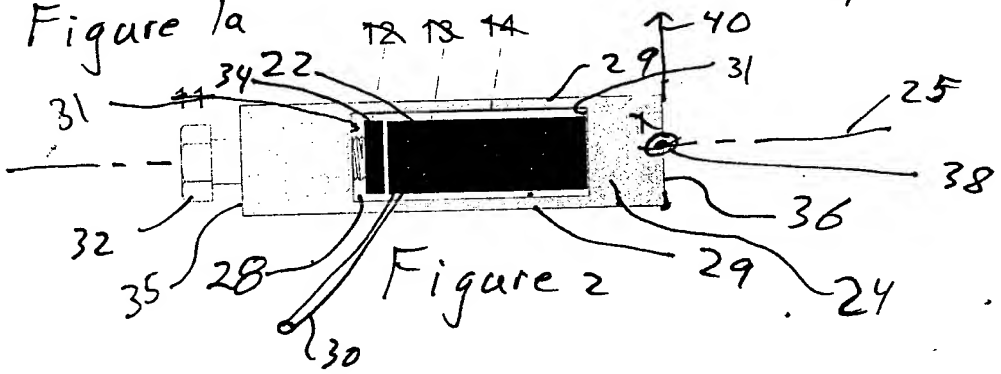


Figure 1a



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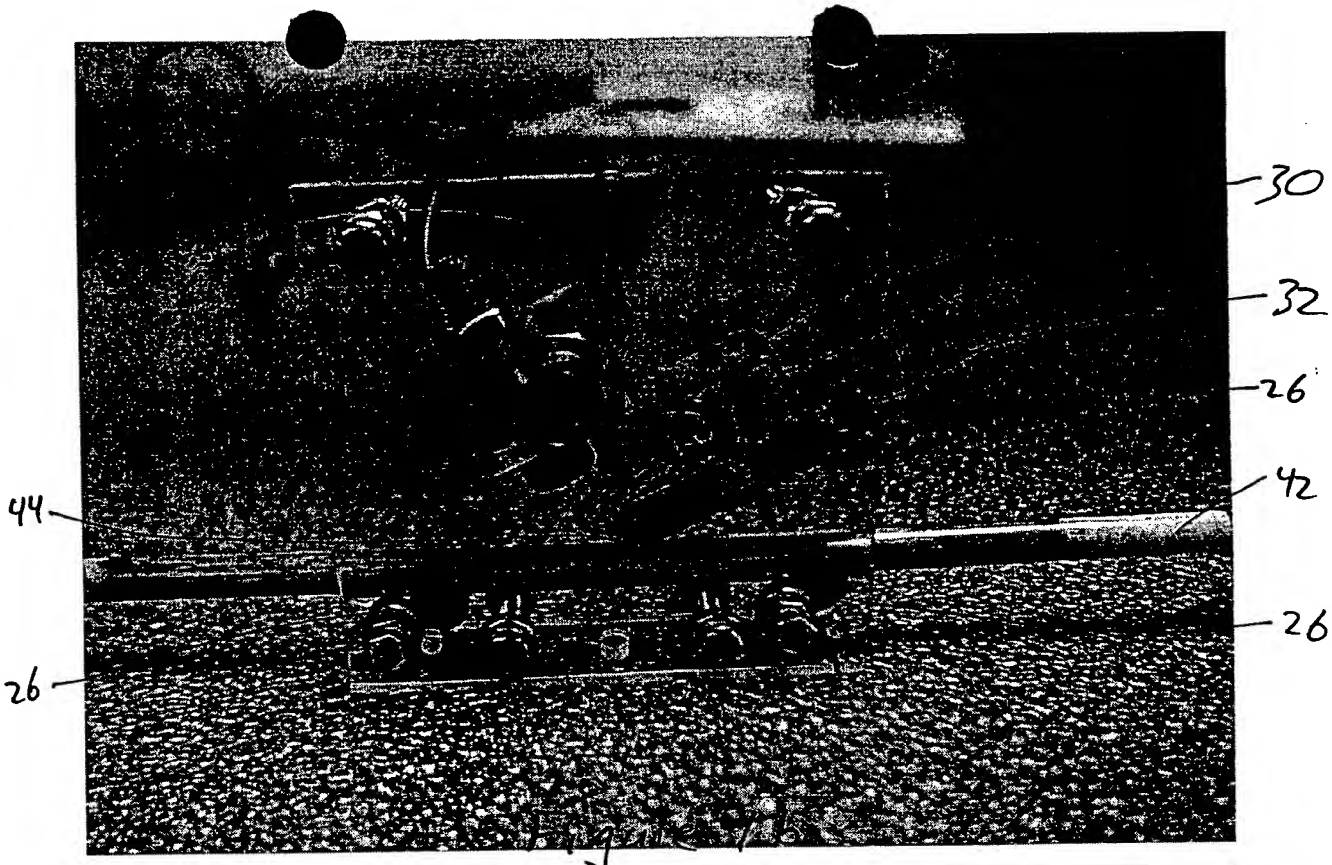

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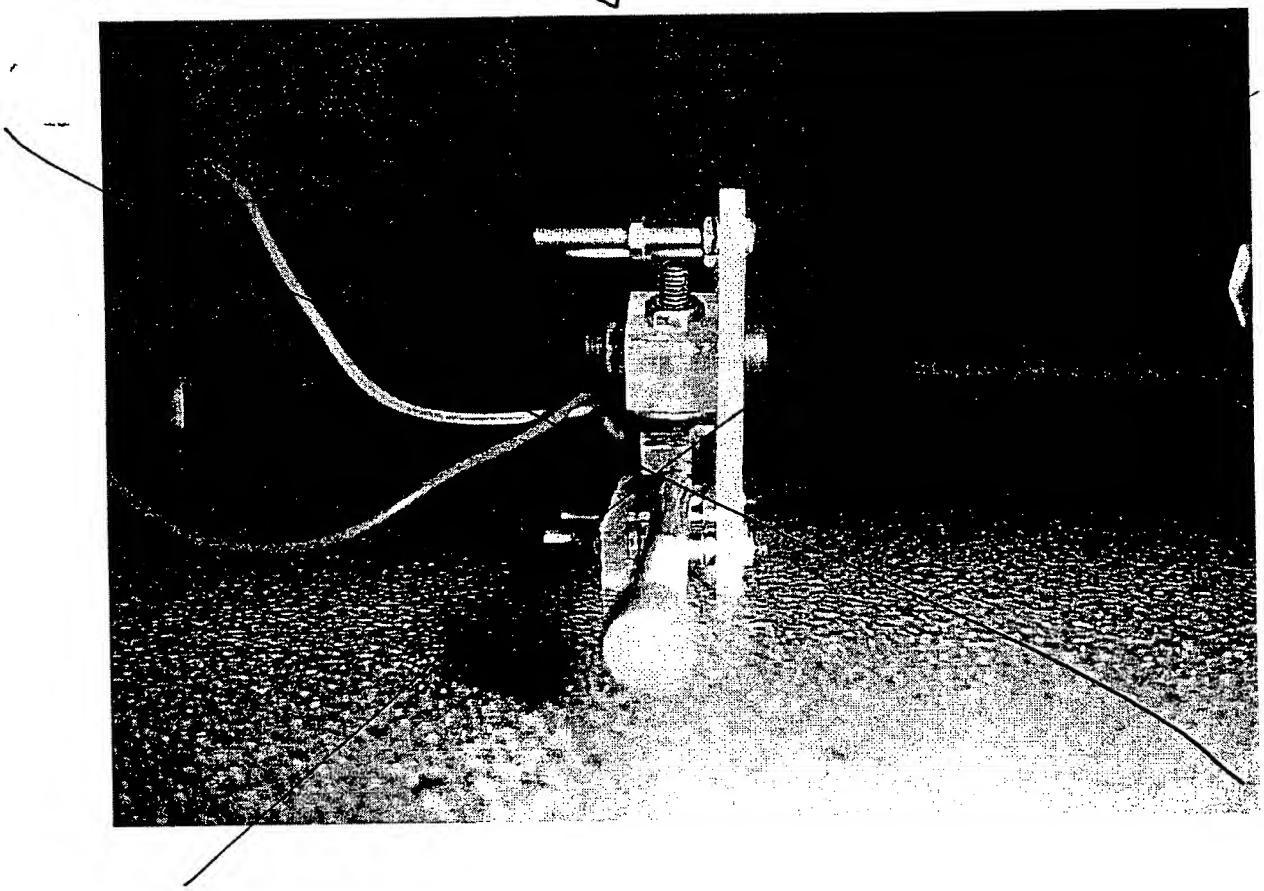

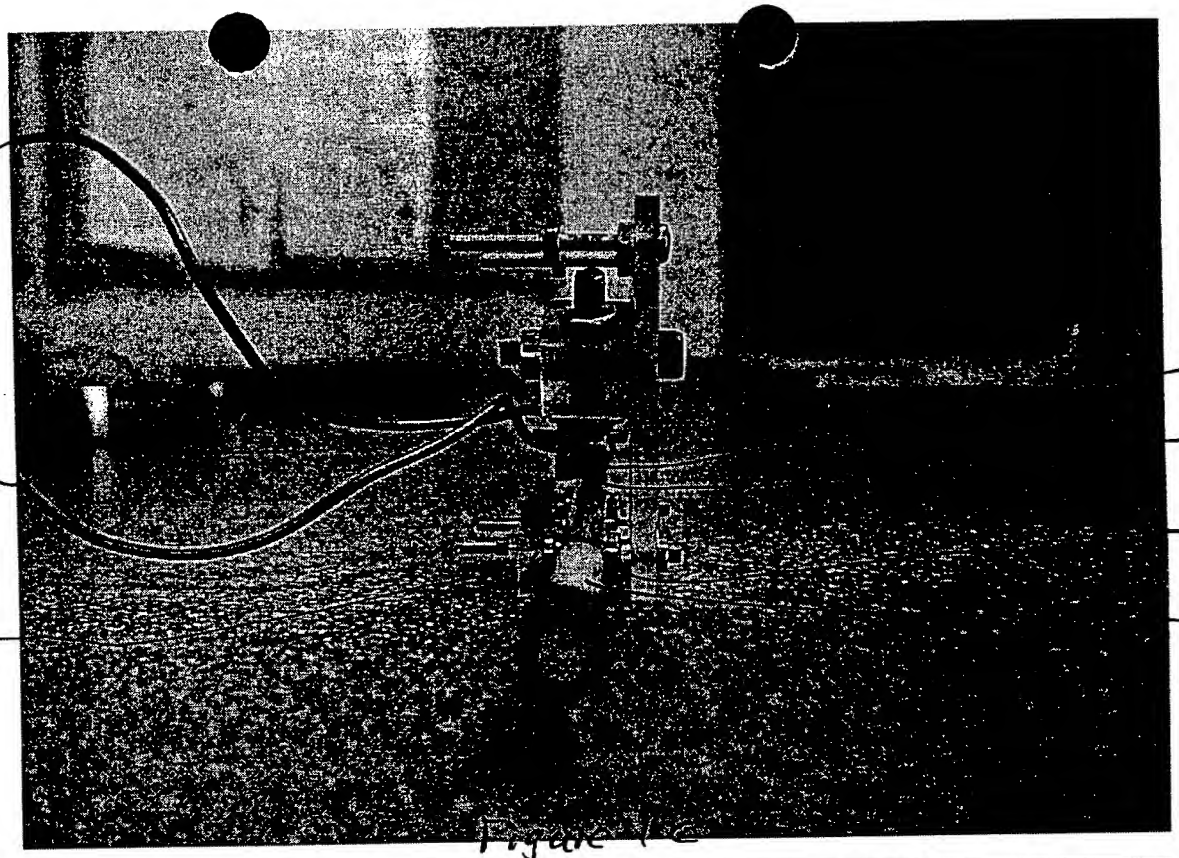

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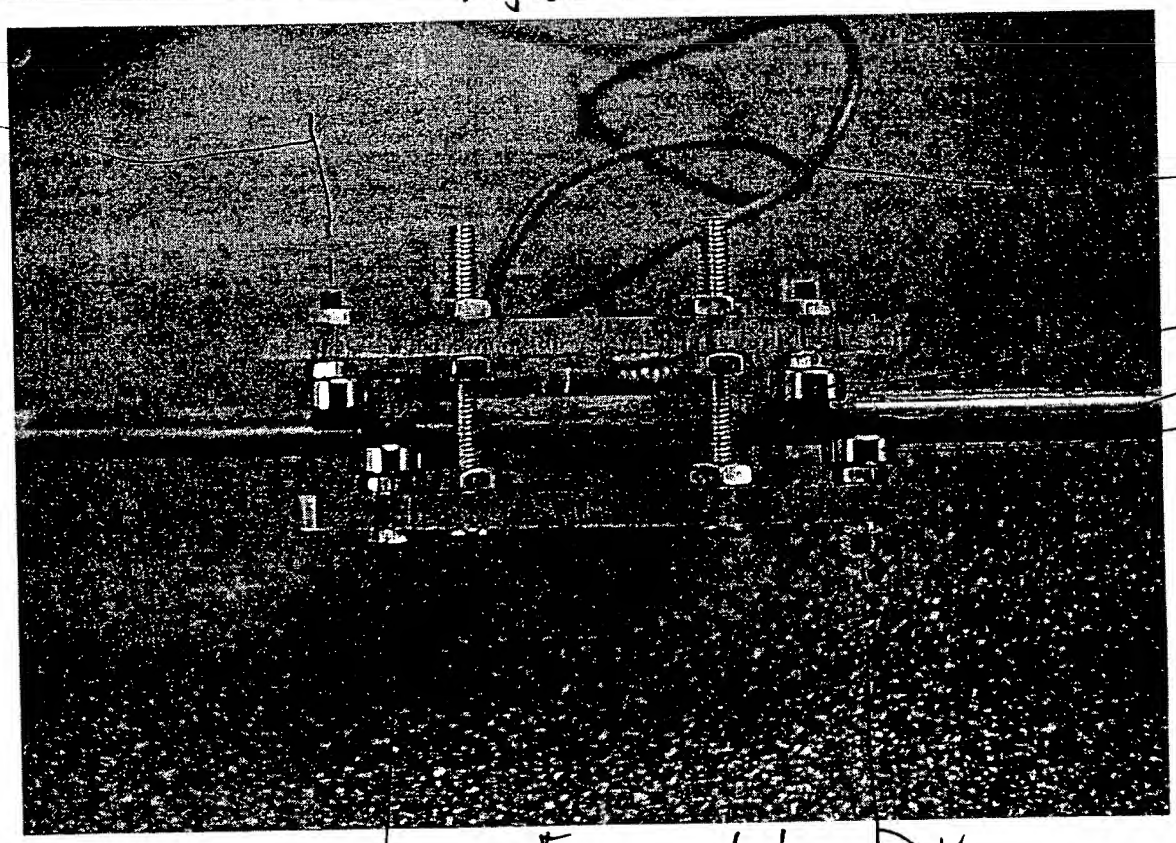


Figure 1d

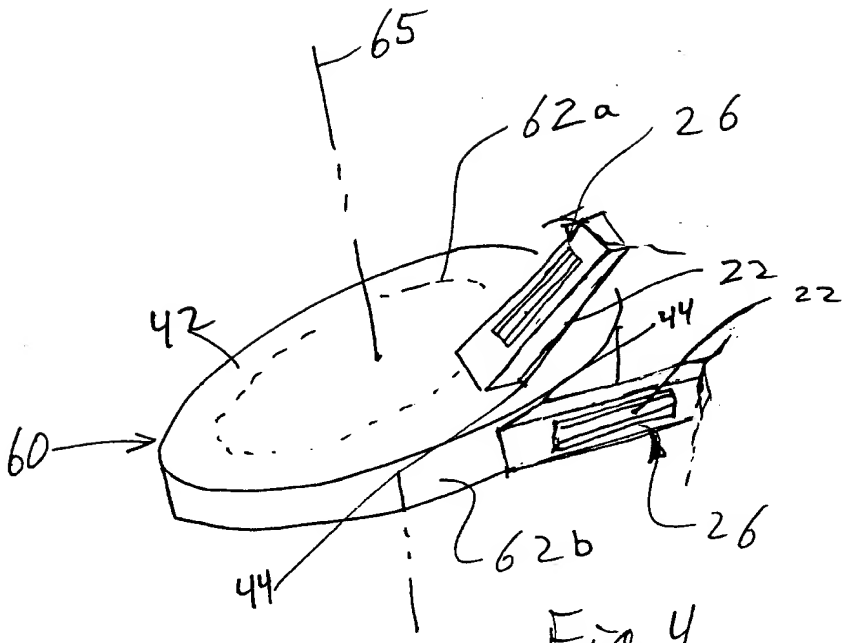


Fig. 4

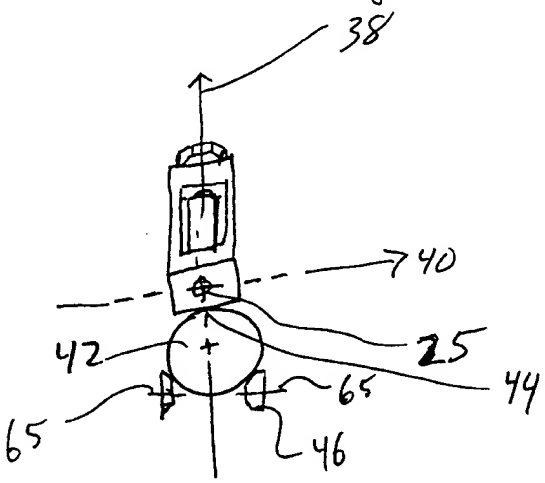
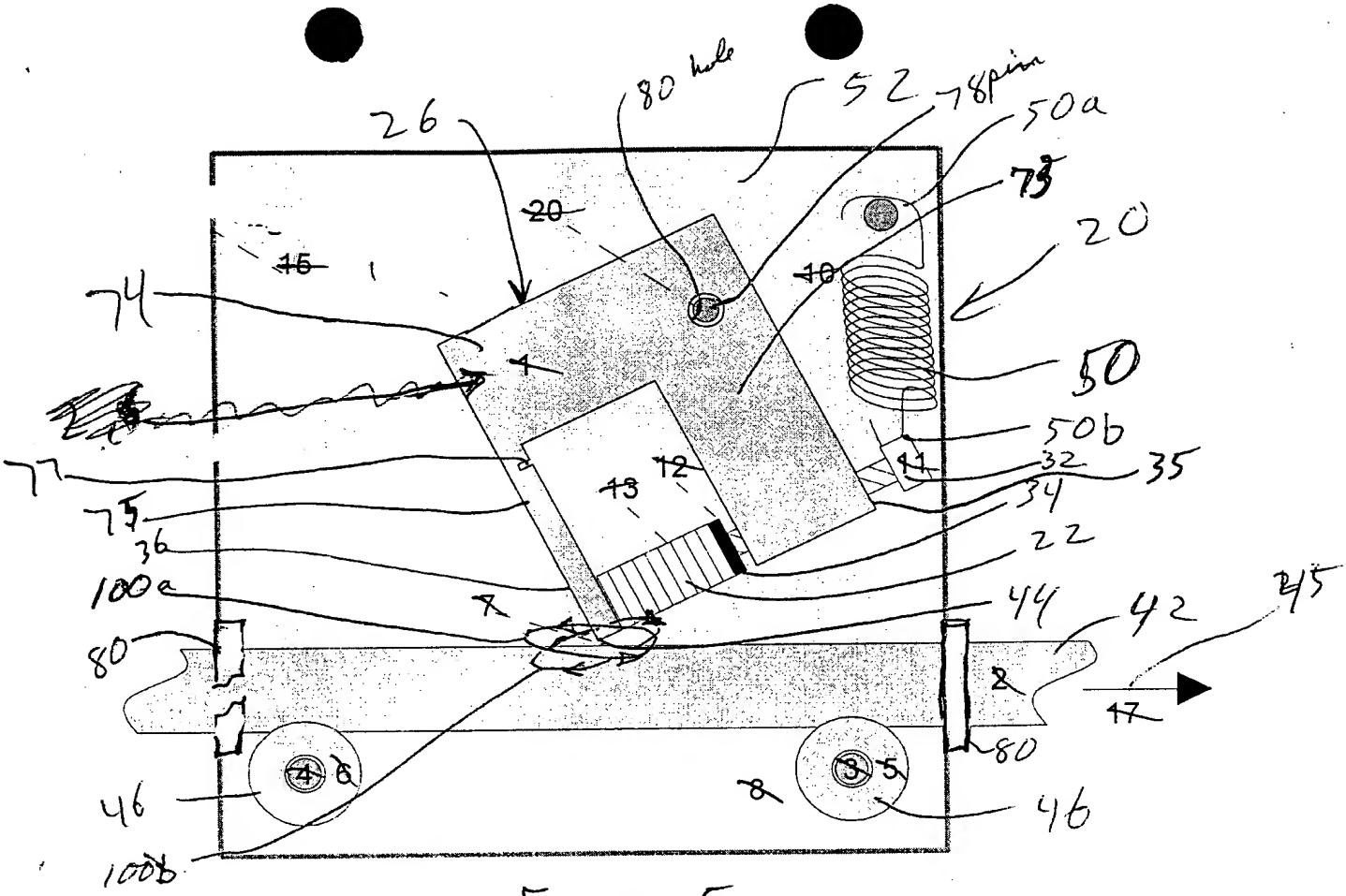


Fig. 3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50a
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50b
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42
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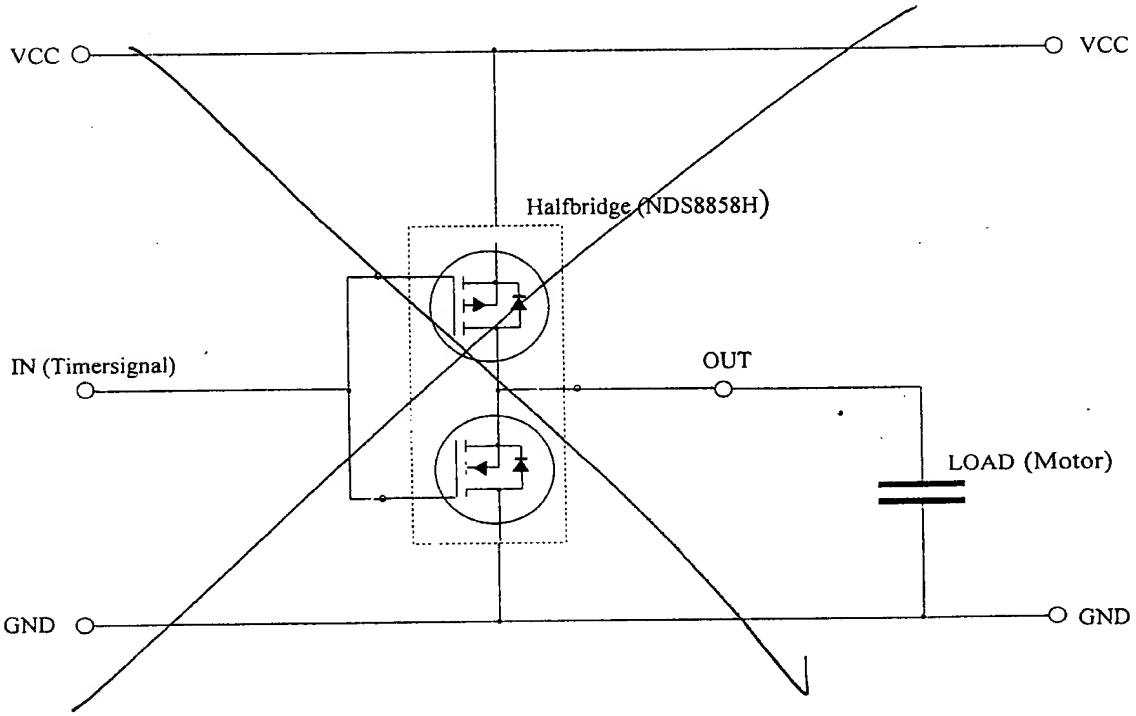
80
47
46
46
100b

Figure 5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VCC
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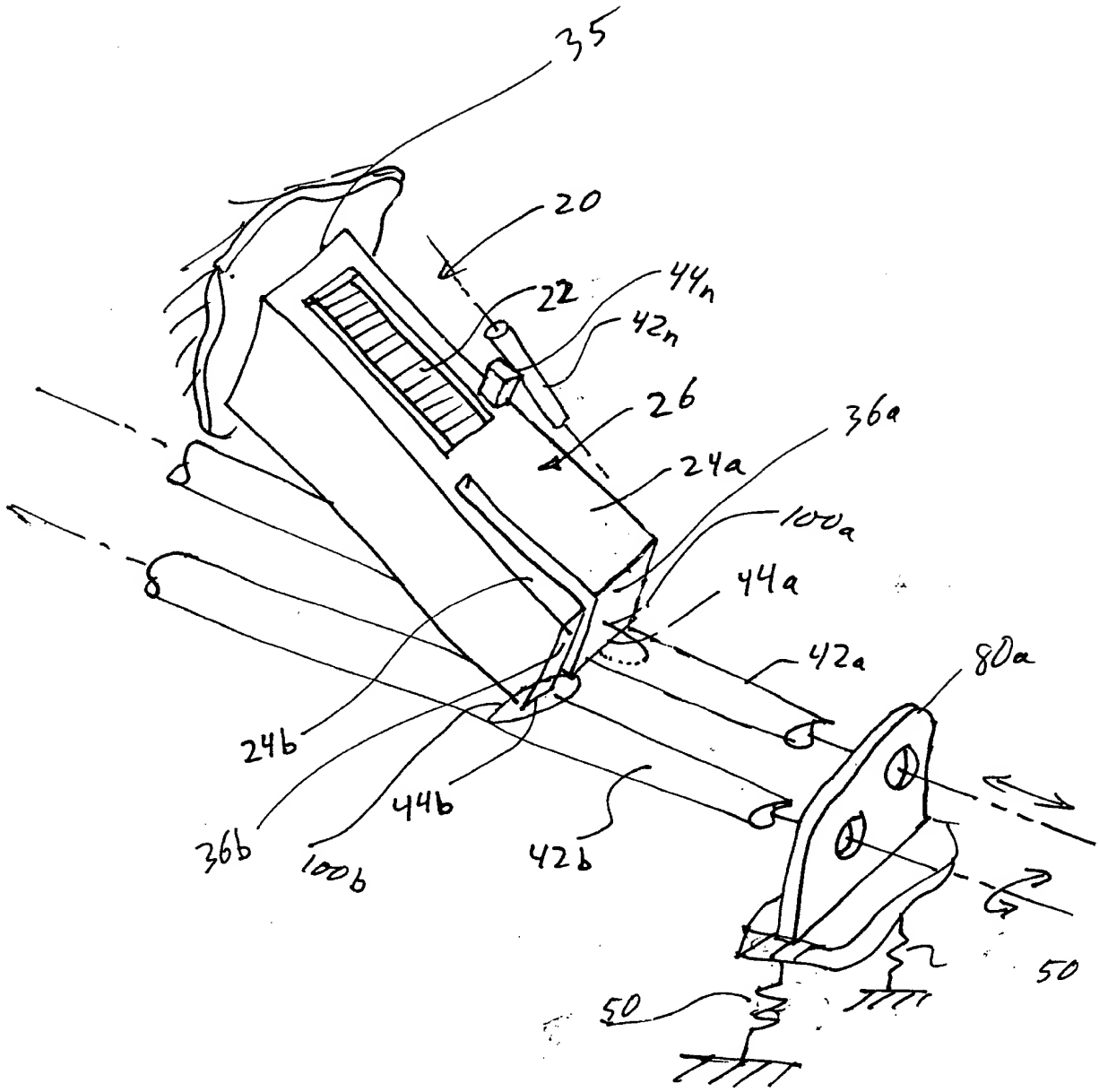
IN (Timersignal)
OUT
LOAD (Motor)
GND
GND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44n
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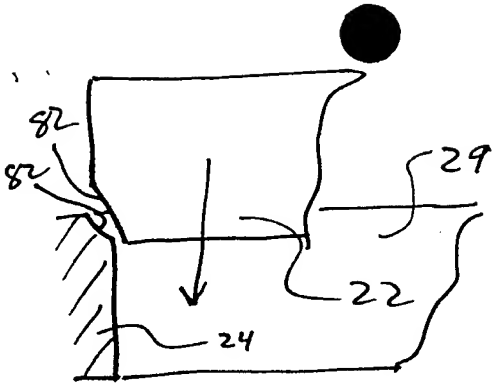
Figure 6



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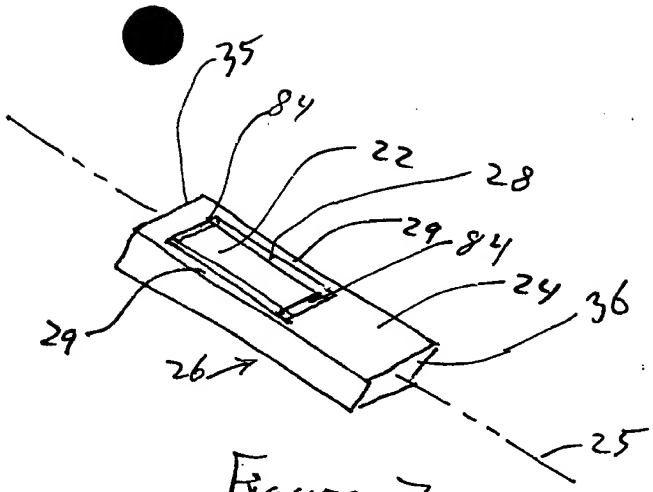

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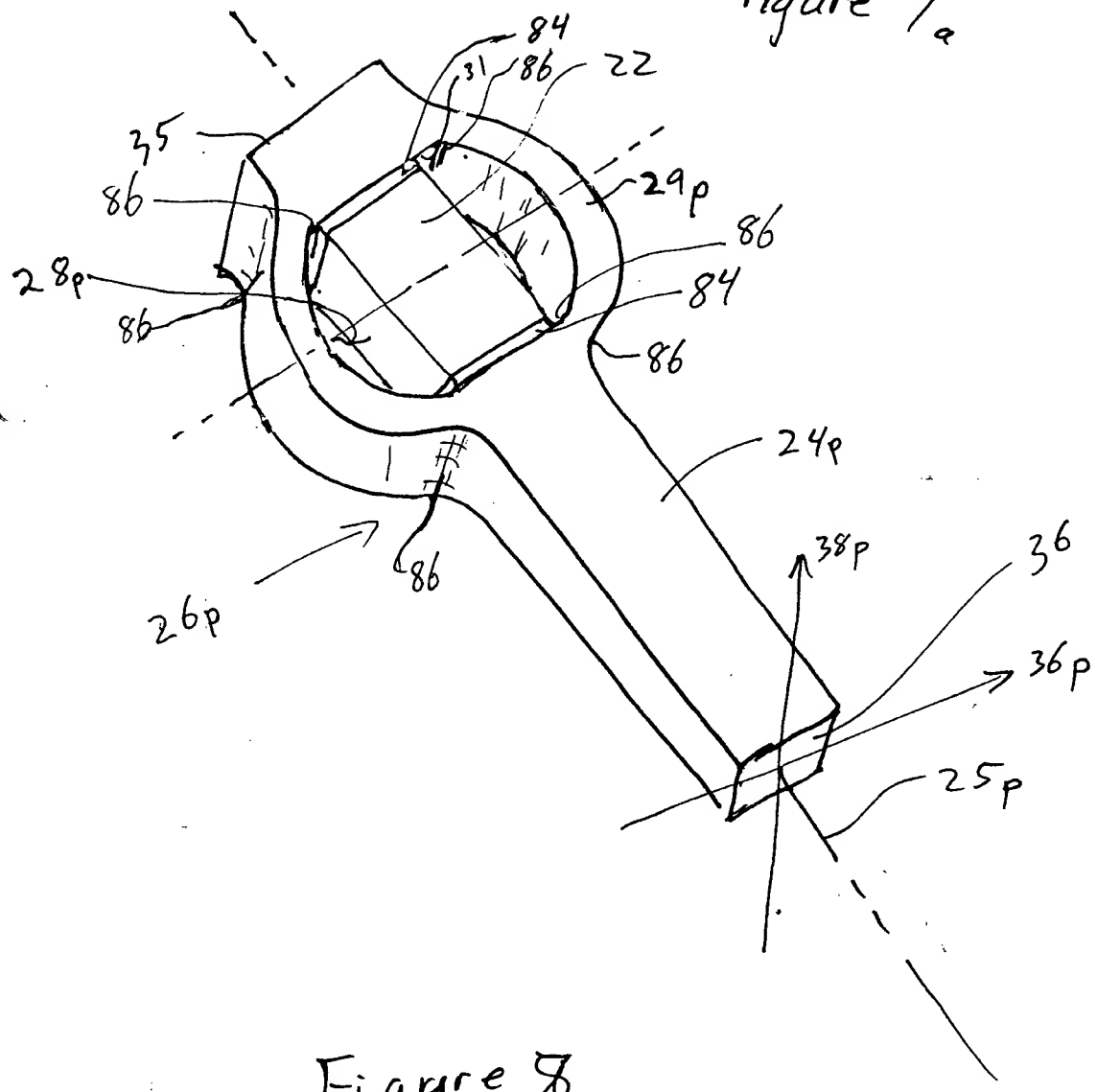

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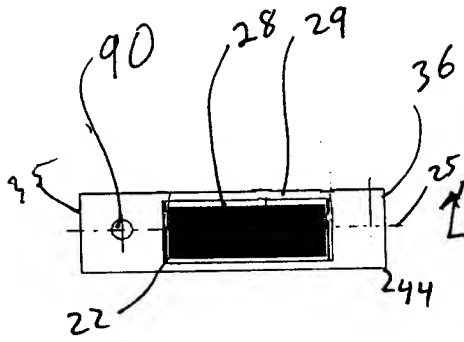

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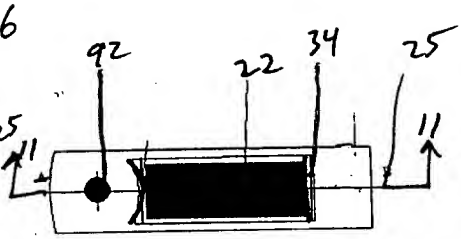

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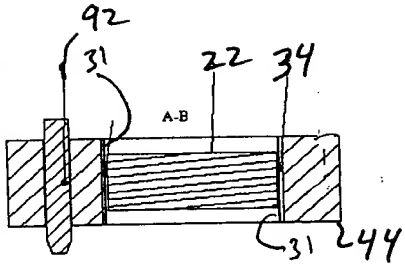

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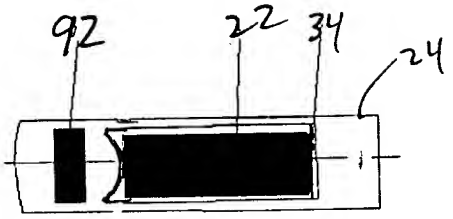

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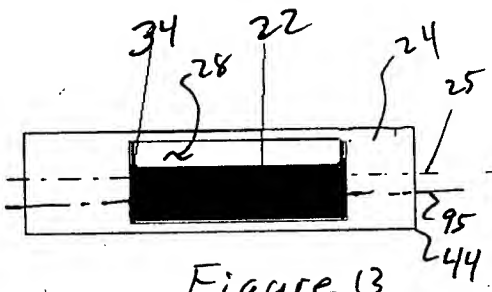

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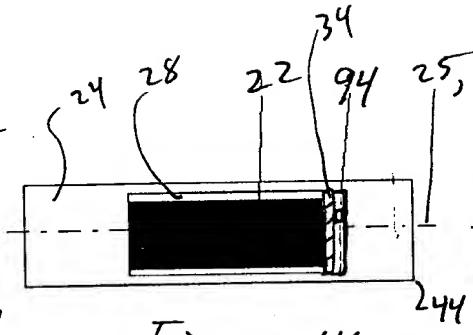

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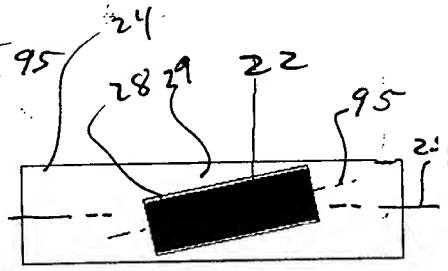

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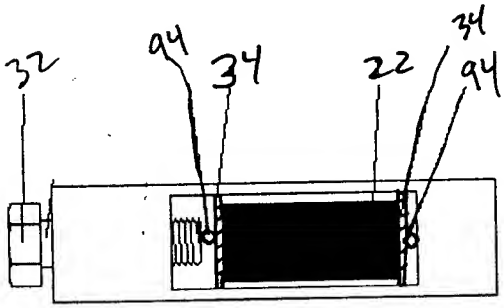

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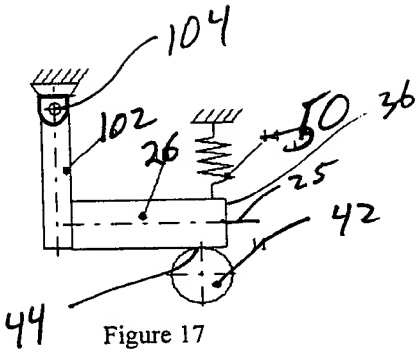

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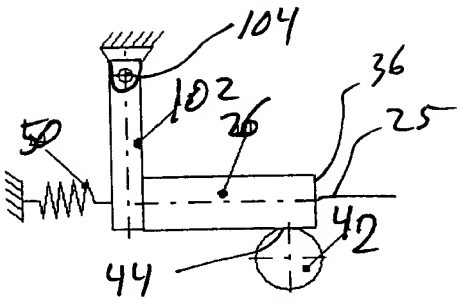

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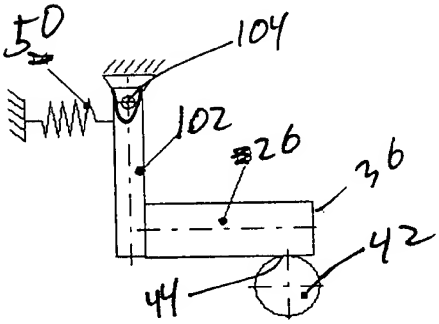

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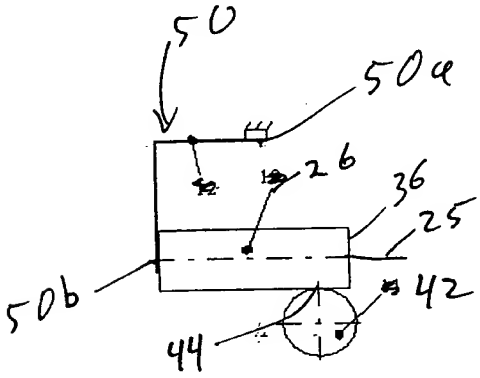

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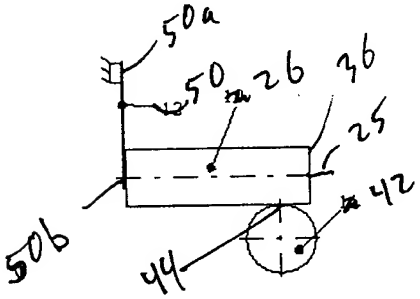

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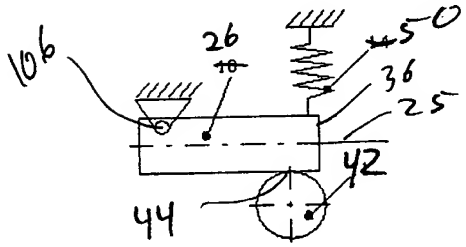

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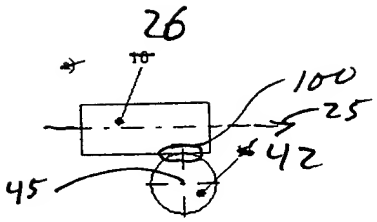

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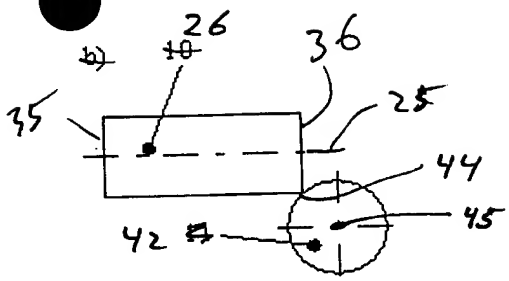

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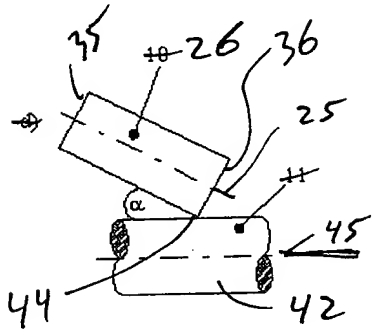

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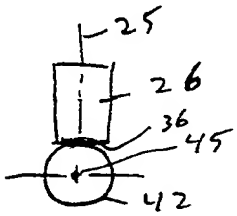

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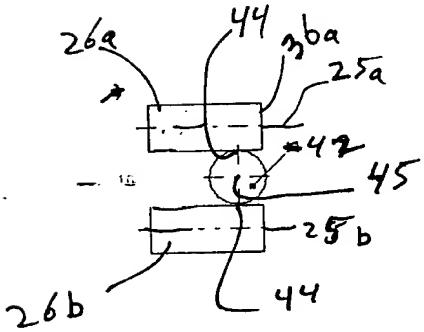

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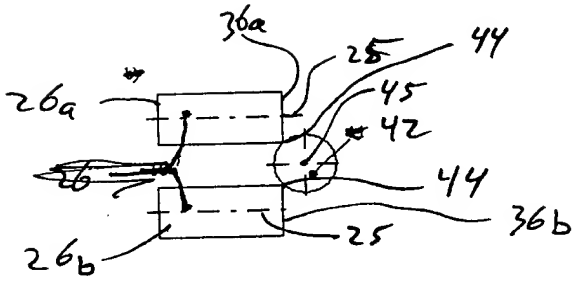

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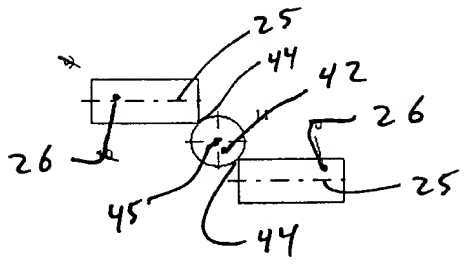

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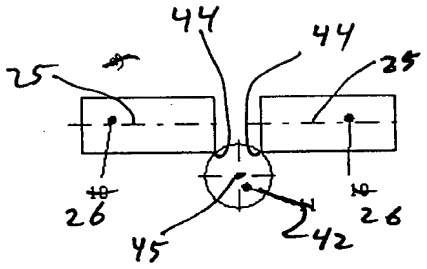

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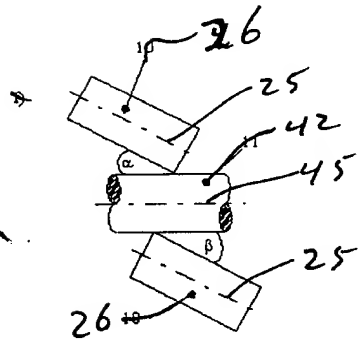

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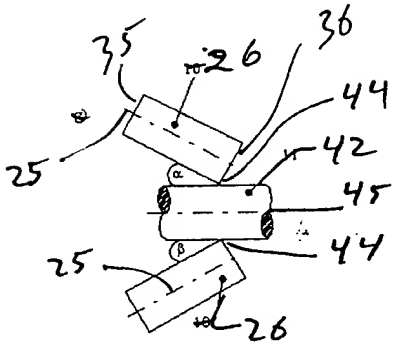

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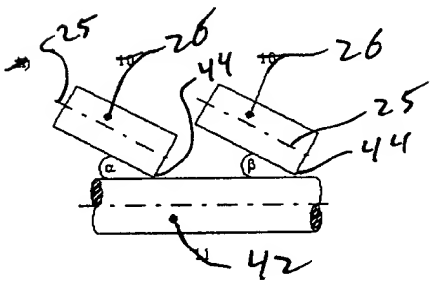

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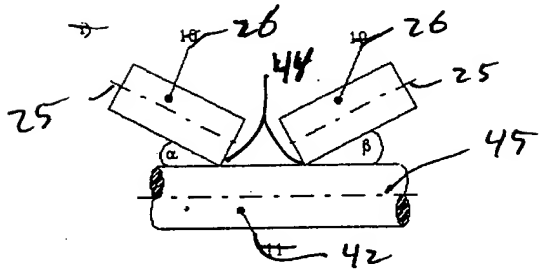

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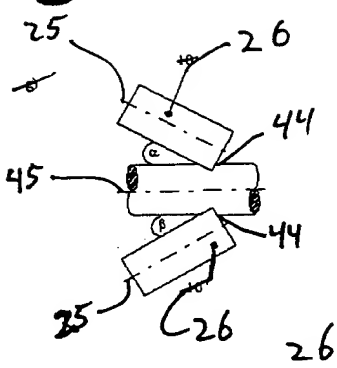

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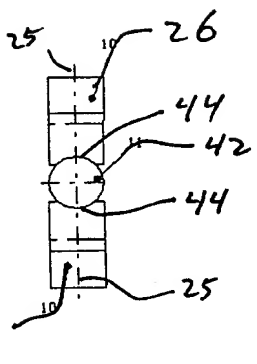

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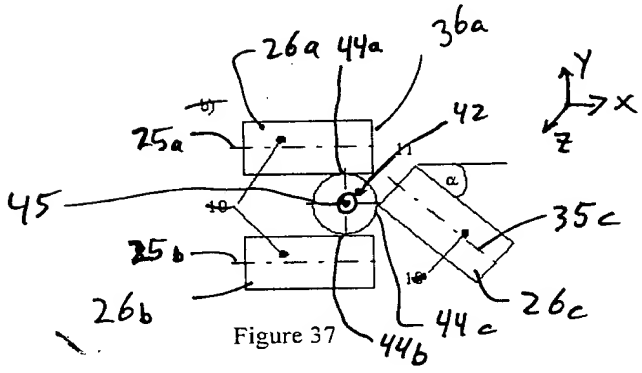

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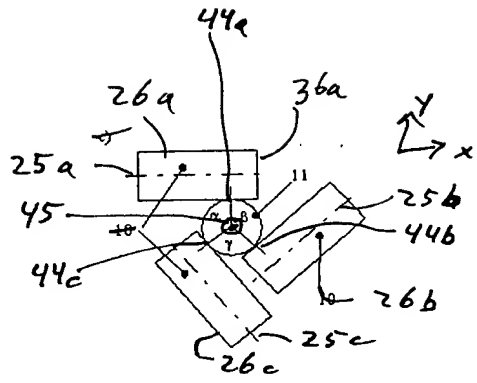

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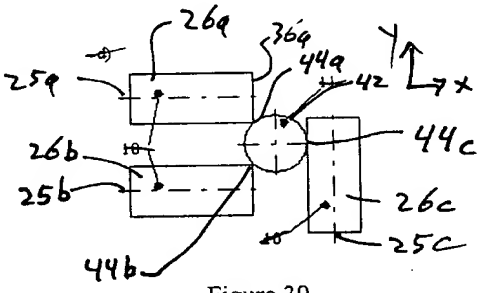

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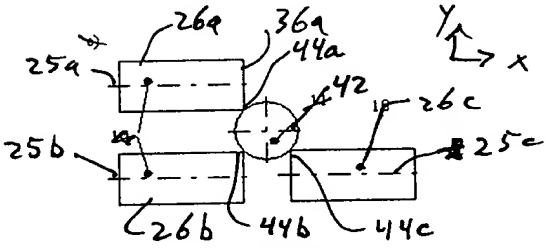

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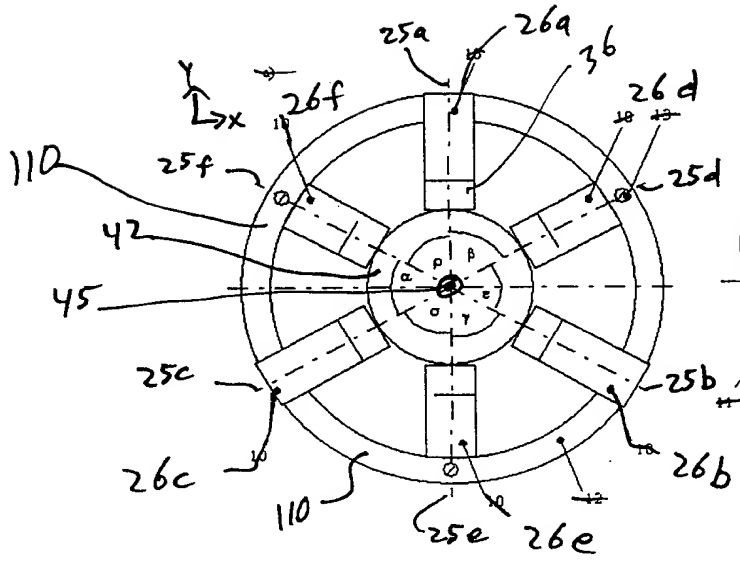

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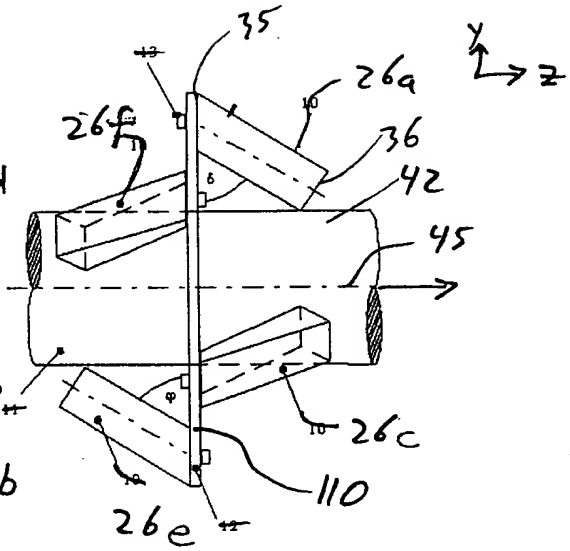

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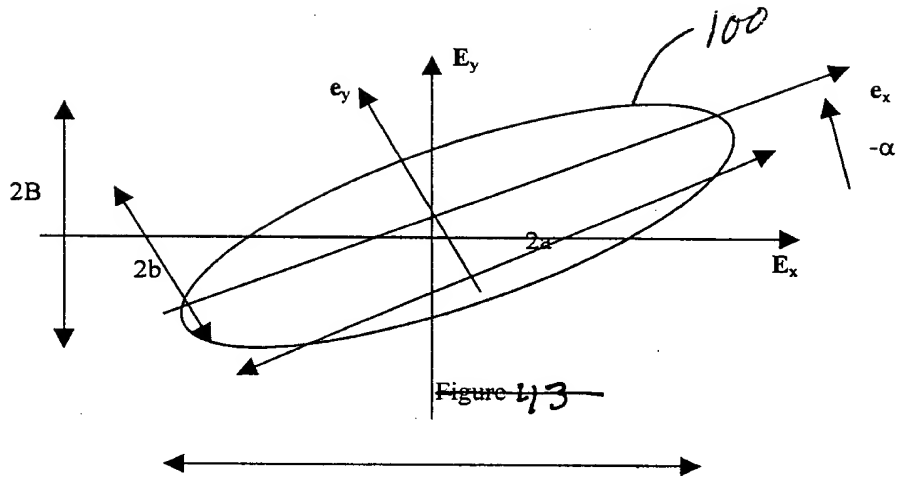


Figure ~~1~~ 3

2A

Figure 43

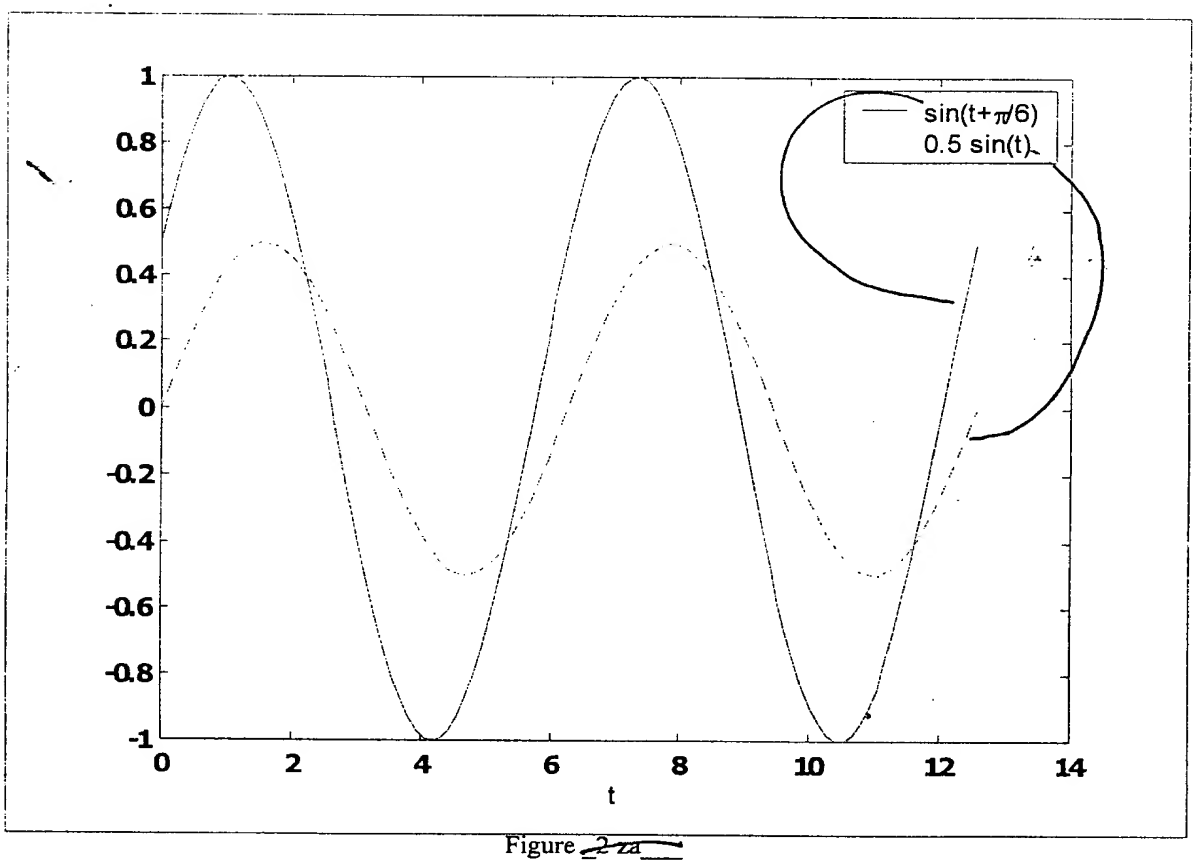


Figure ~~2 za~~

44

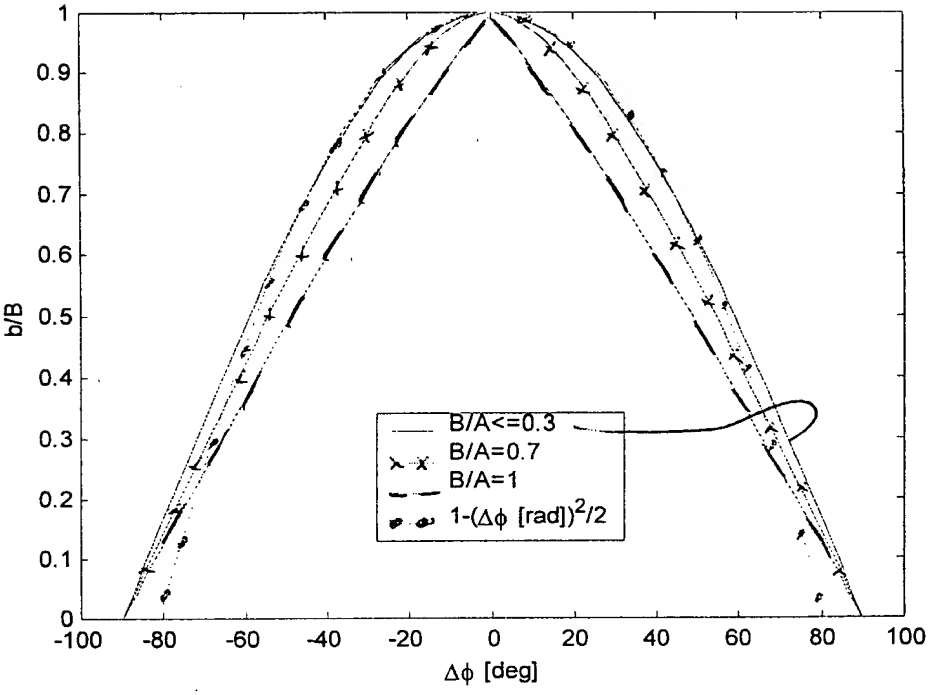


Figure ~~3a~~ 45

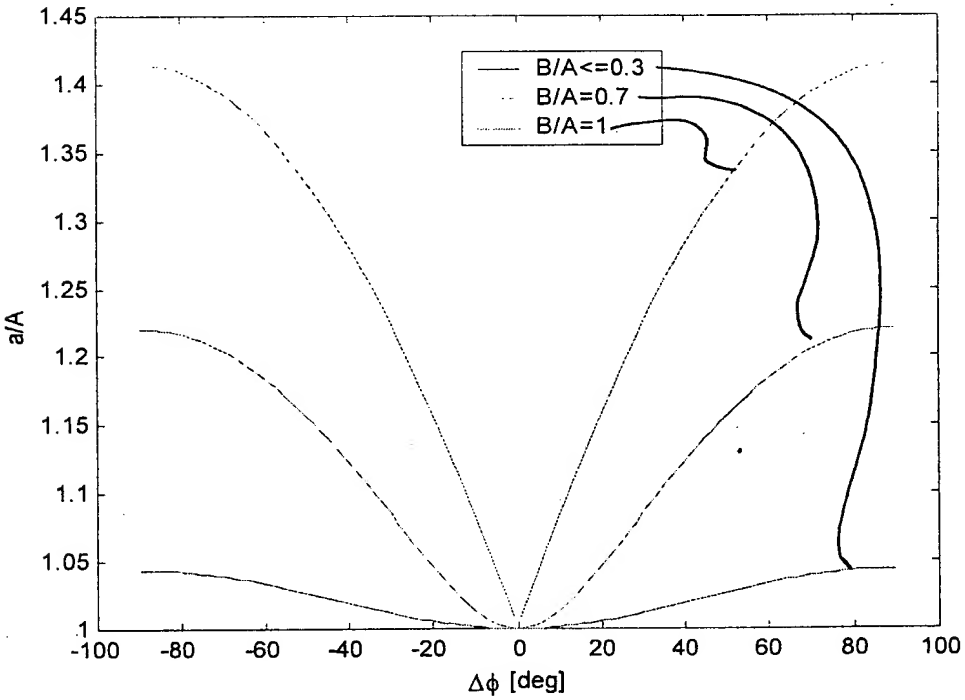
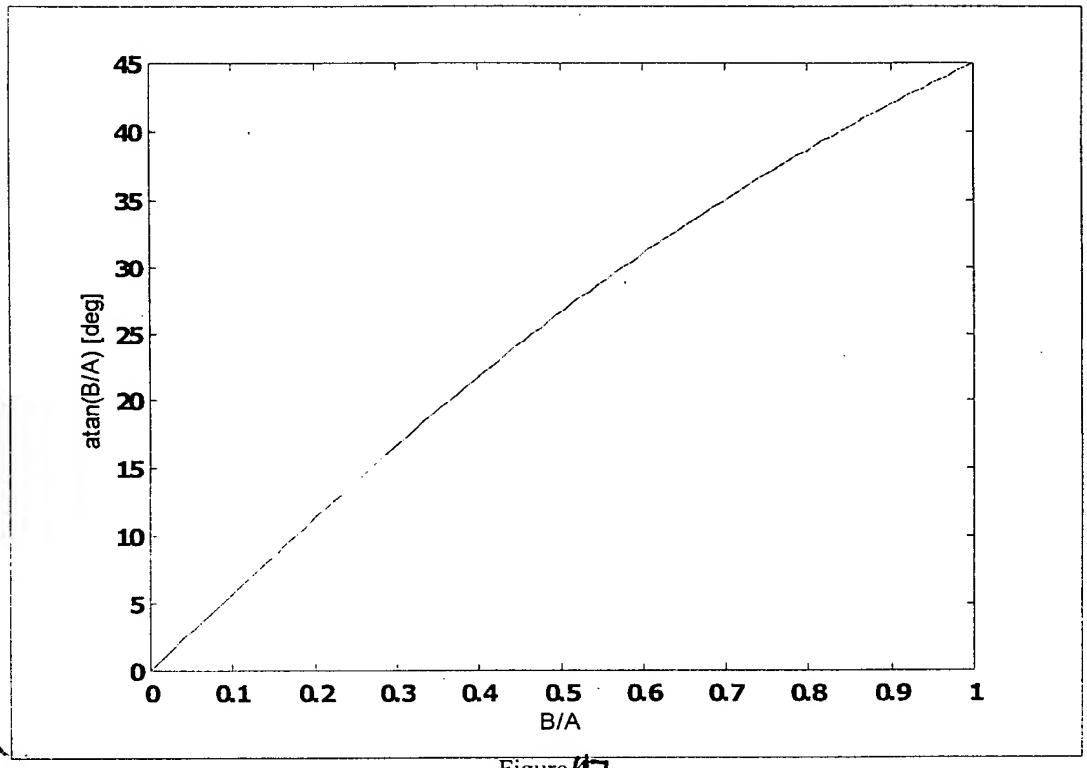


Figure ~~3 zb~~ 46



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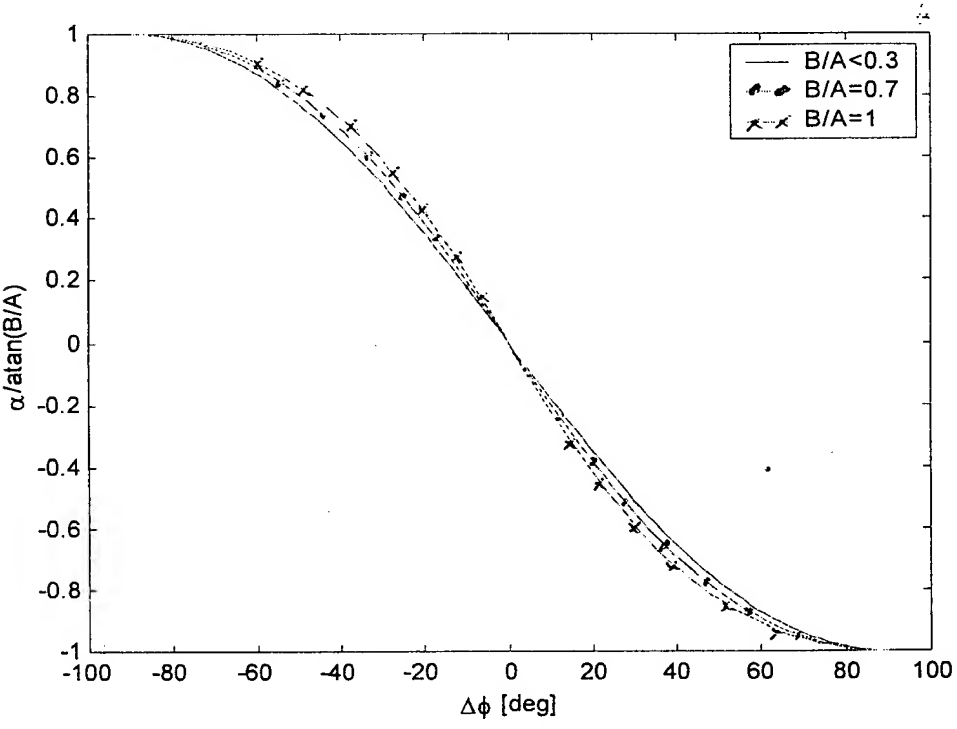

Figure 18

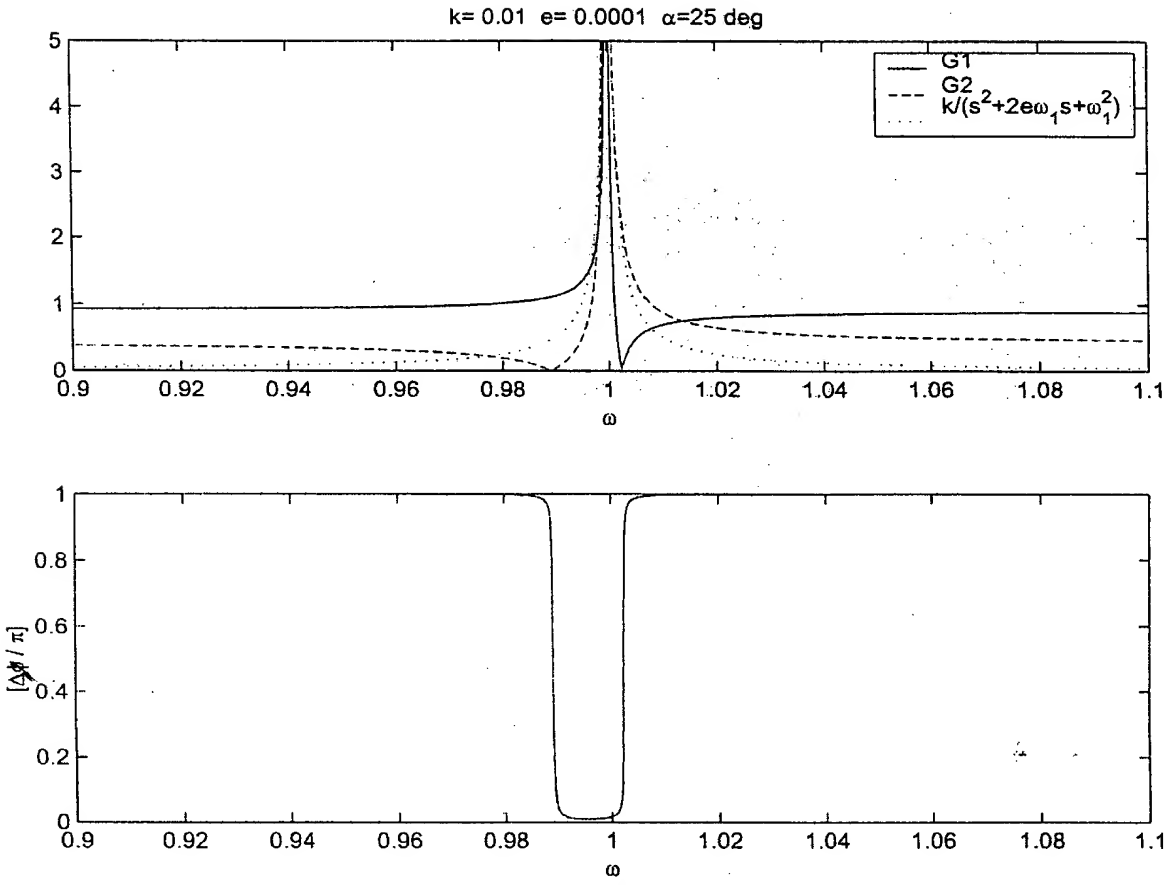

Figure 2a 49

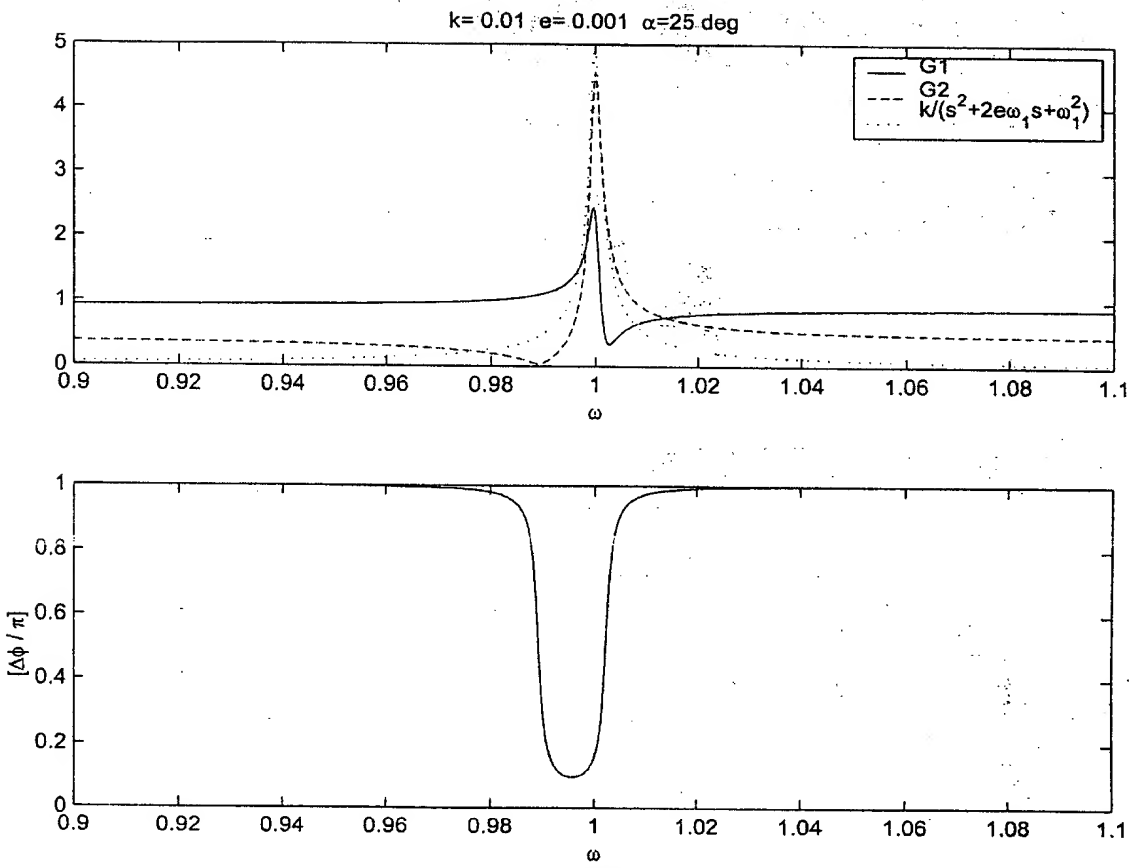
k= 0.01 e= 0.001 α=25 deg
G1
G2
k/(s²+2eω₁s+ω₁²)
5
4
3
2
1
0
0.9
0.92
0.94
0.96
0.98
1
1.02
1.04
1.06
1.08
1.1
ω
[Δφ / π]
1
0.8
0.6
0.4
0.2
0
0.9
0.92
0.94
0.96
0.98
1
1.02
1.04
1.06
1.08
1.1
ω

Figure ~~2b~~ 50

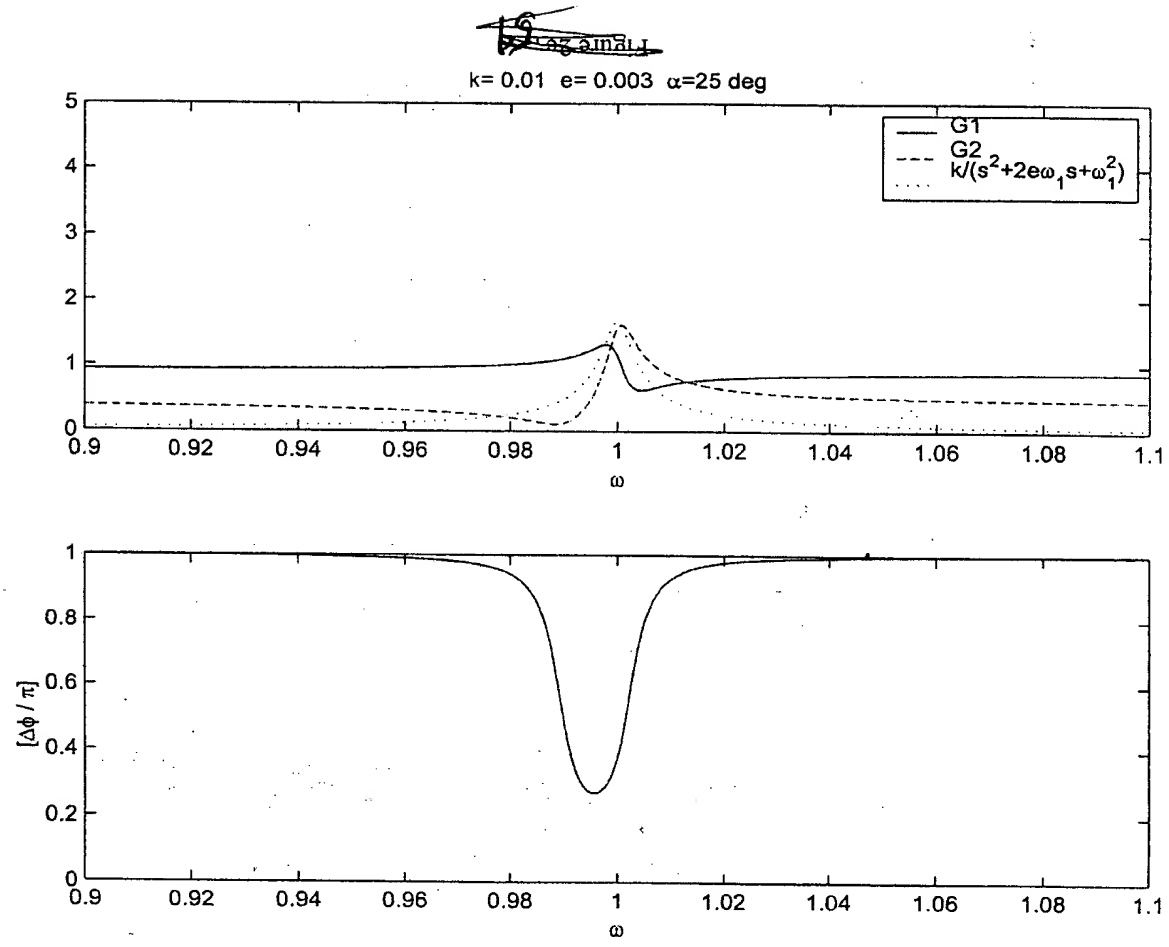

Figure 51

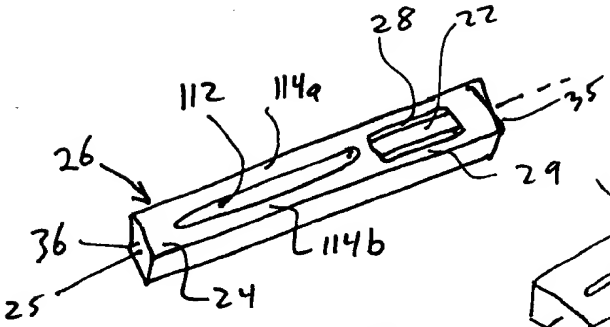

Figure 52

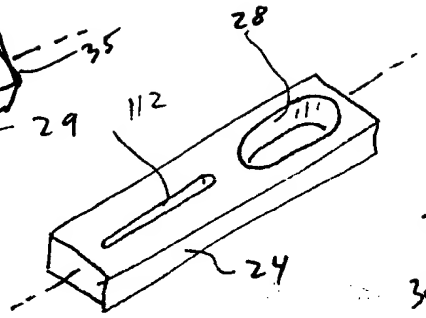

Figure 53

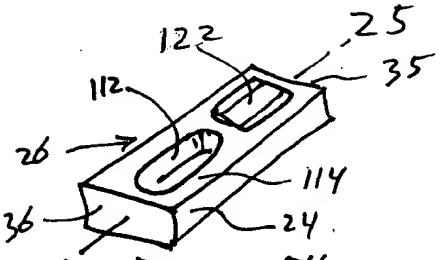

Figure 54

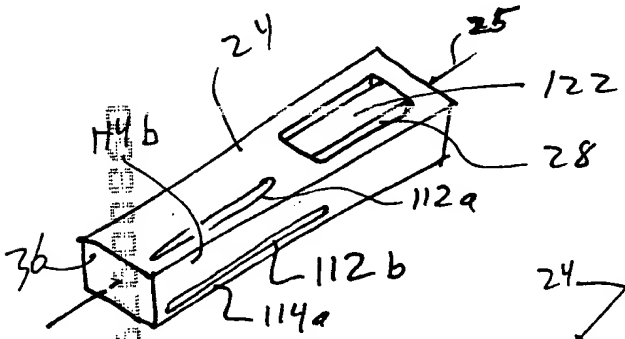

Figure 55

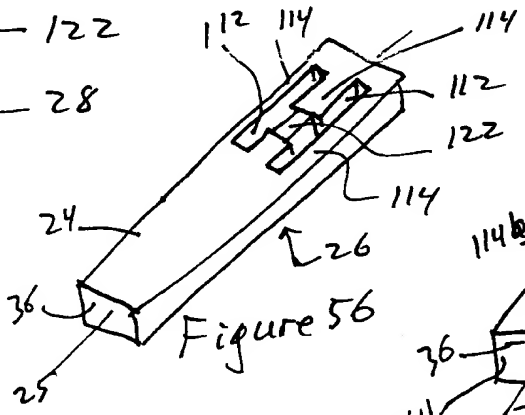

Figure 56

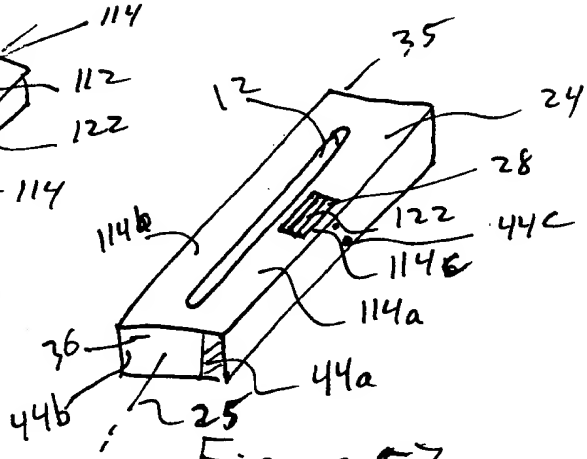

Figure 57

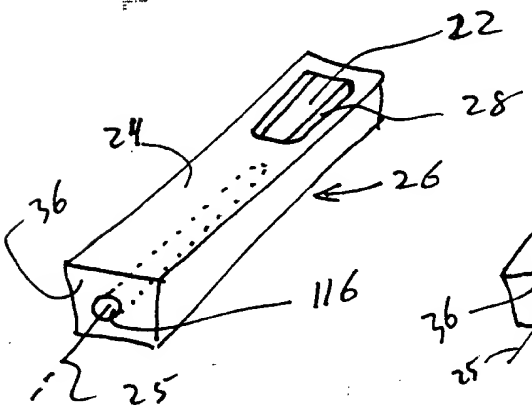

Figure 58

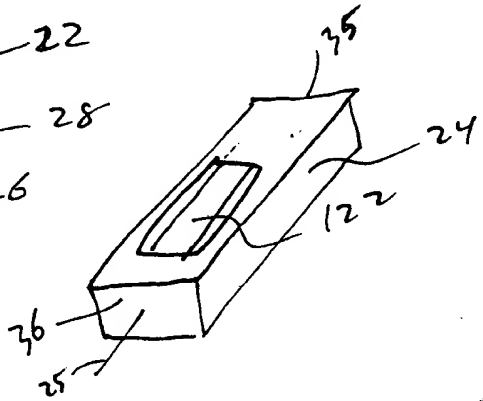

Figure 59

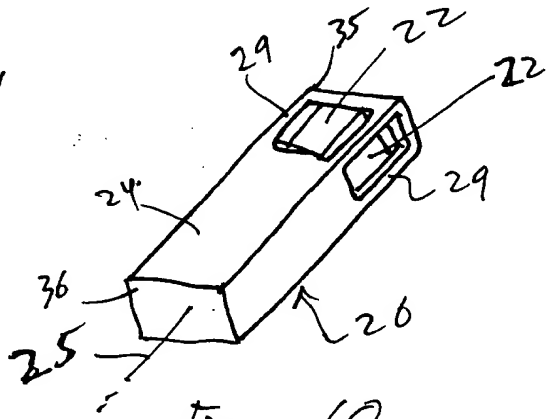

Figure 60

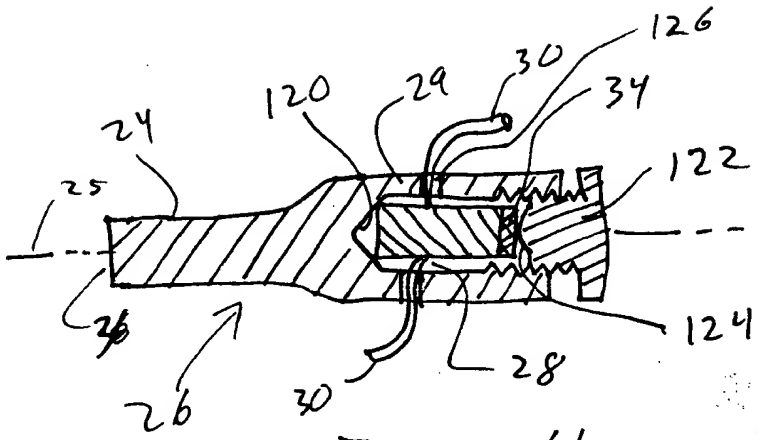

Figure 61

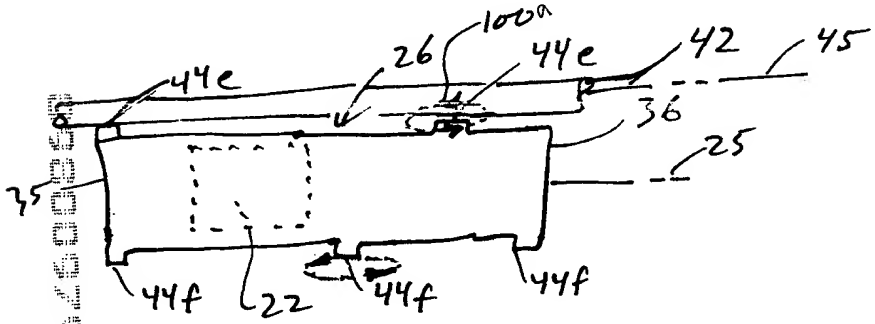

Figure 62

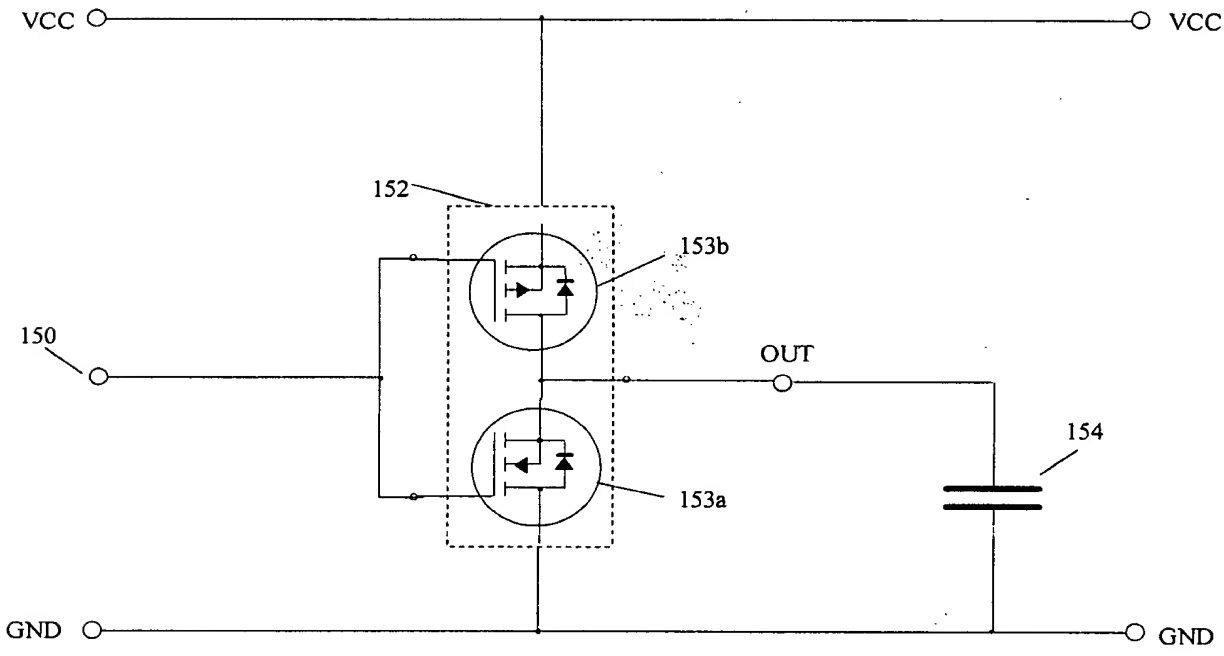

Figure 63

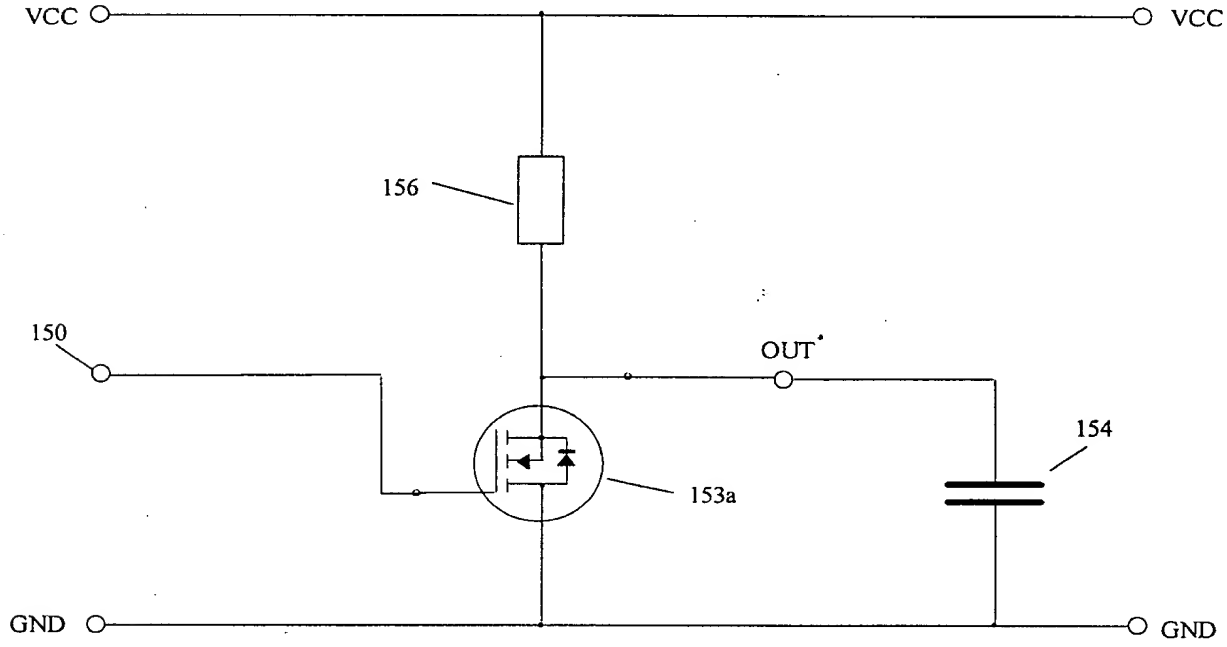

Figure 64

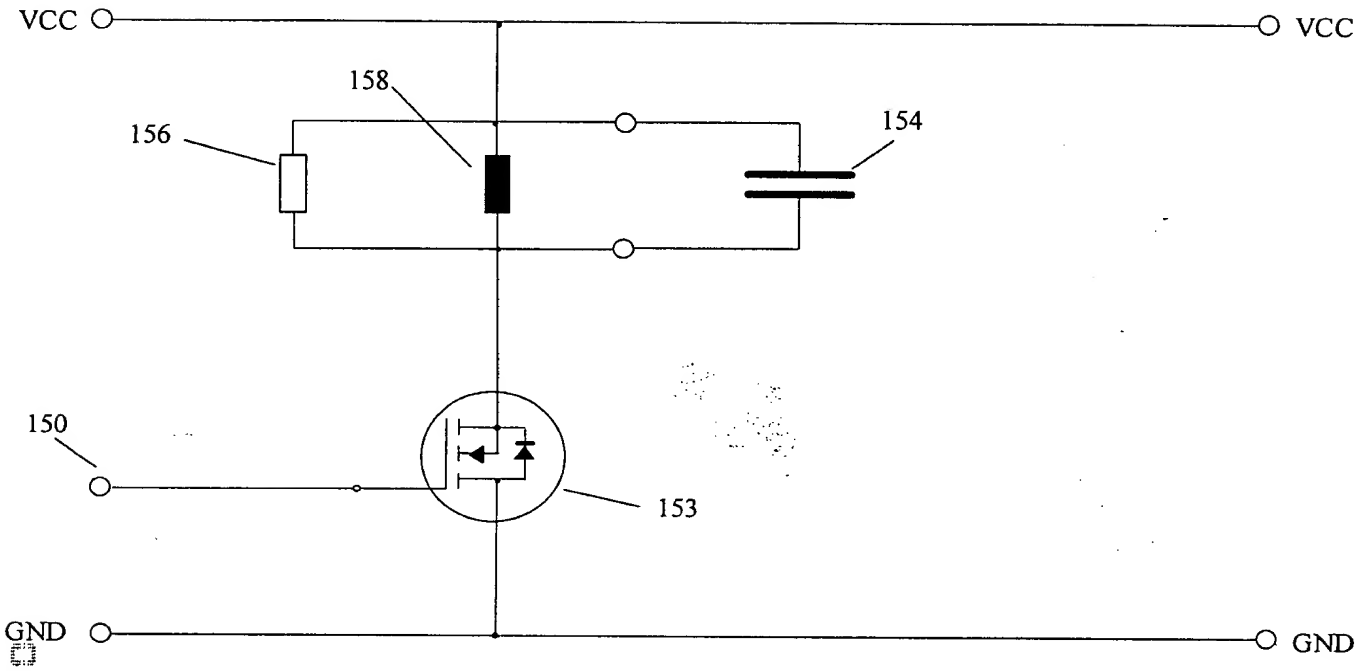

Figure 65

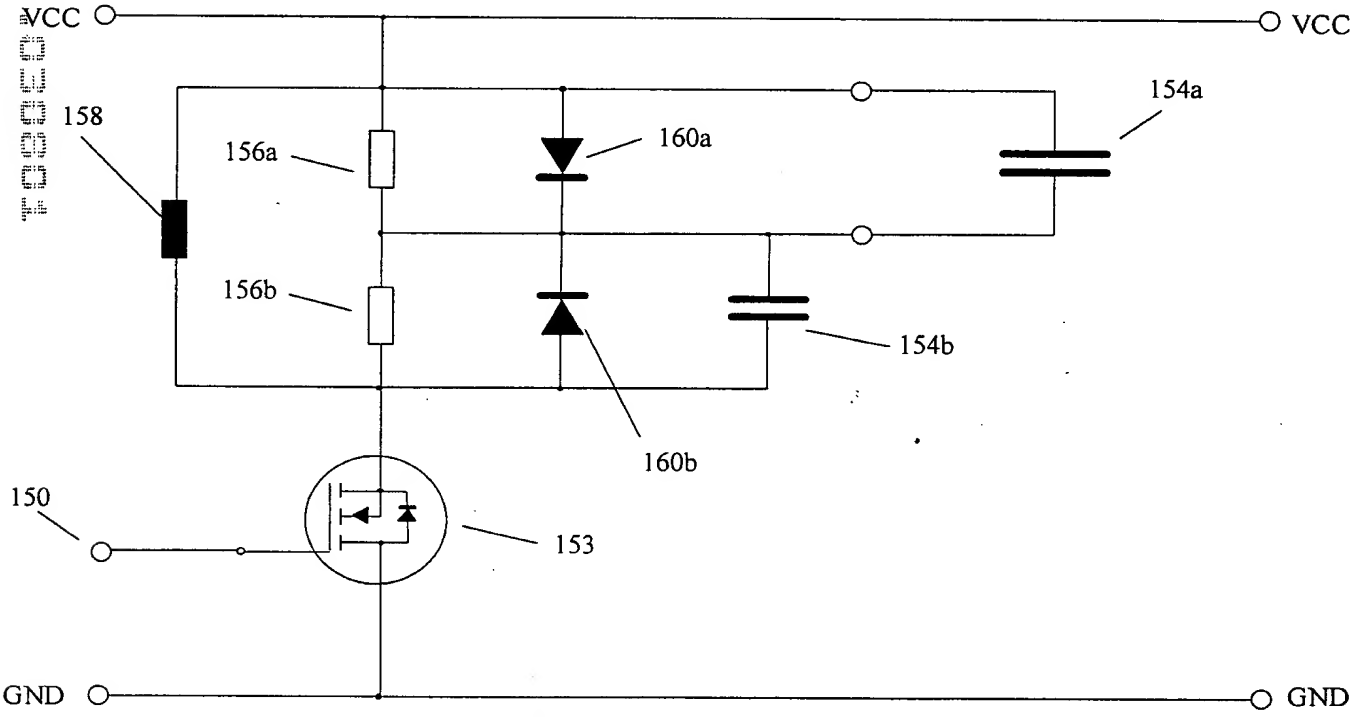

Figure 66

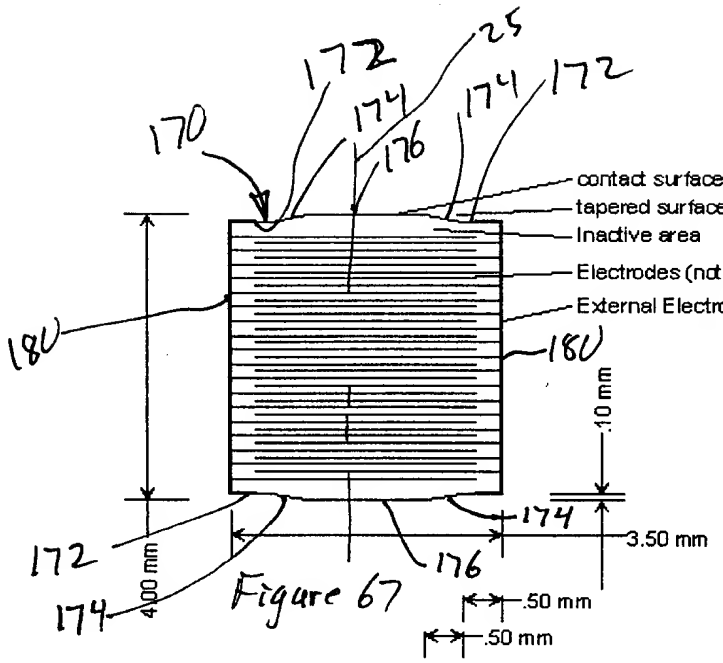

Figure 67

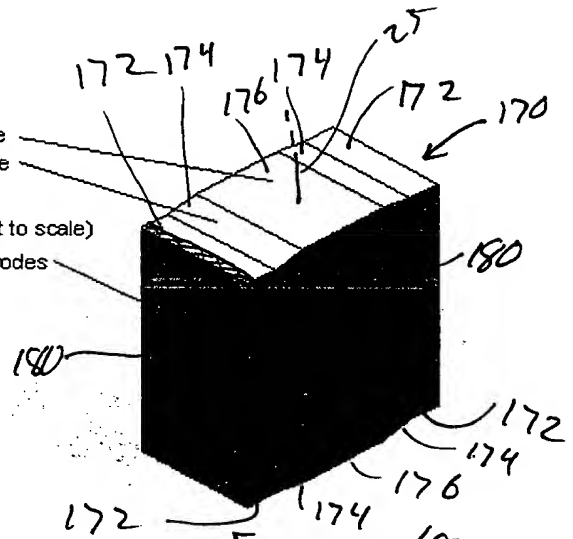

Figure 68

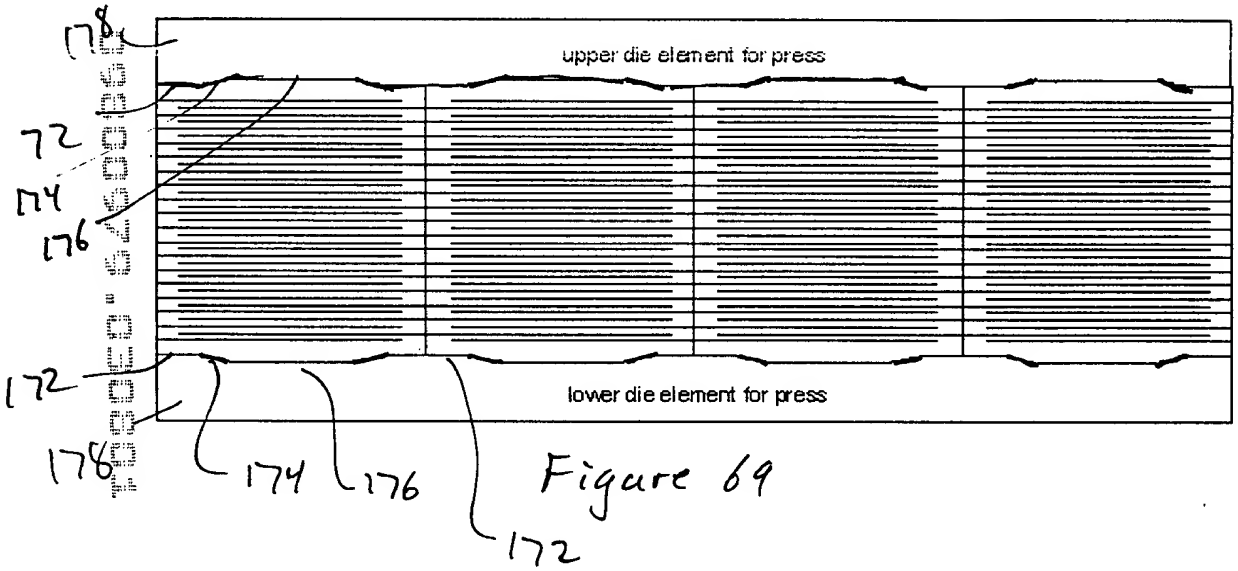

Figure 69

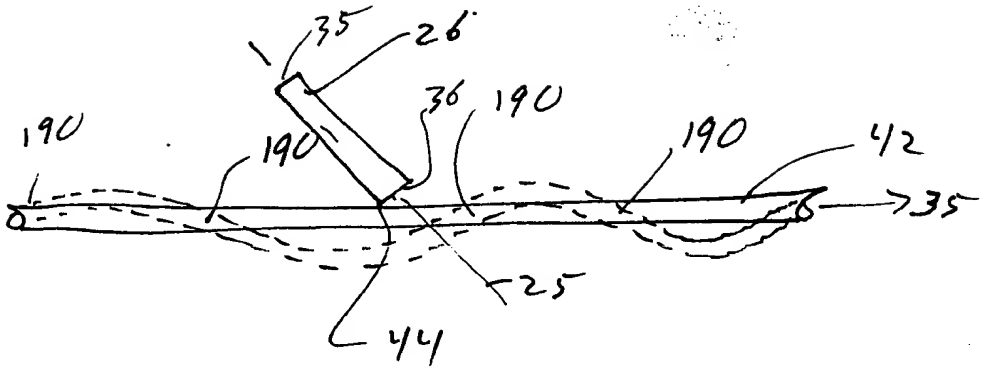

Figure 70

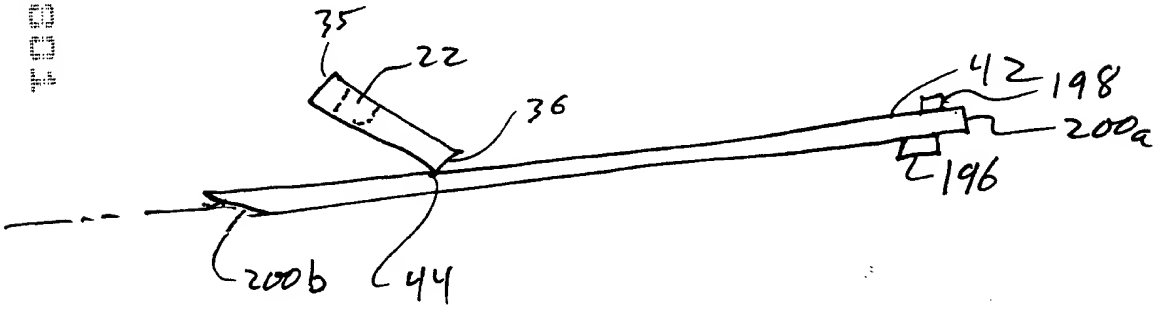

Figure 71

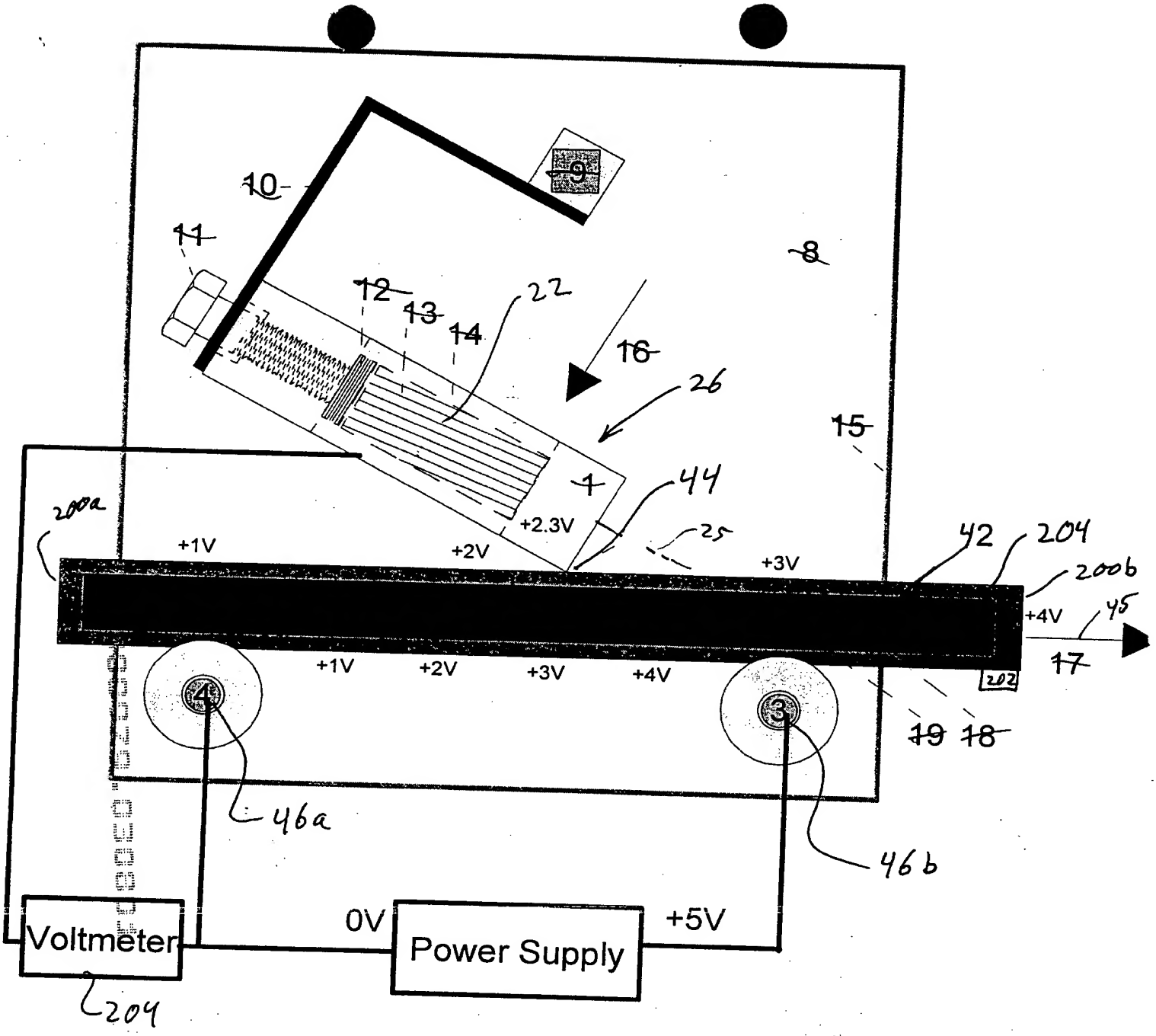
9
10
11
8
12
13
14
22
16
26
15
1
44
+2.3V
25
200a
+1V
+2V
+3V
42
204
200b
+4V
45
17
+1V
+2V
+3V
+4V
202
19
18
4
3
46a
46b
Voltmeter
0V
Power Supply
+5V
204

Figure 72

Patent Application Publication

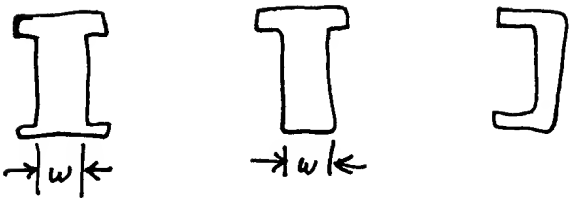

Figure 7A3

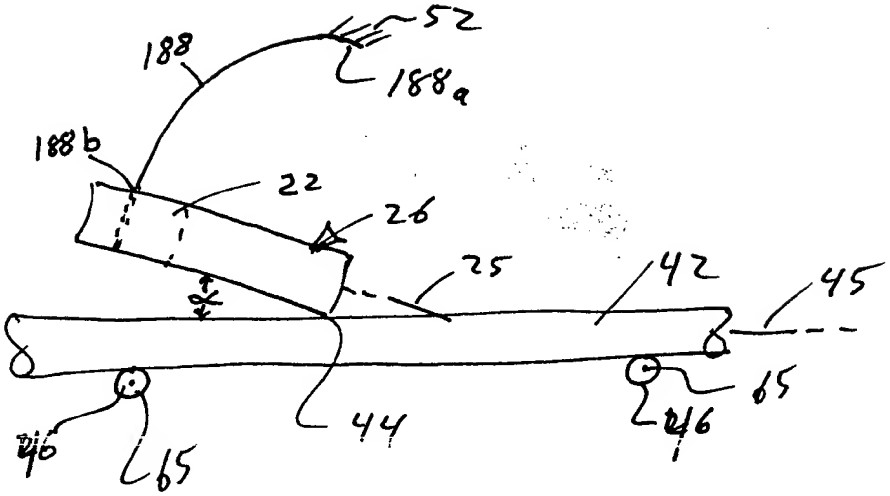

Figure 784

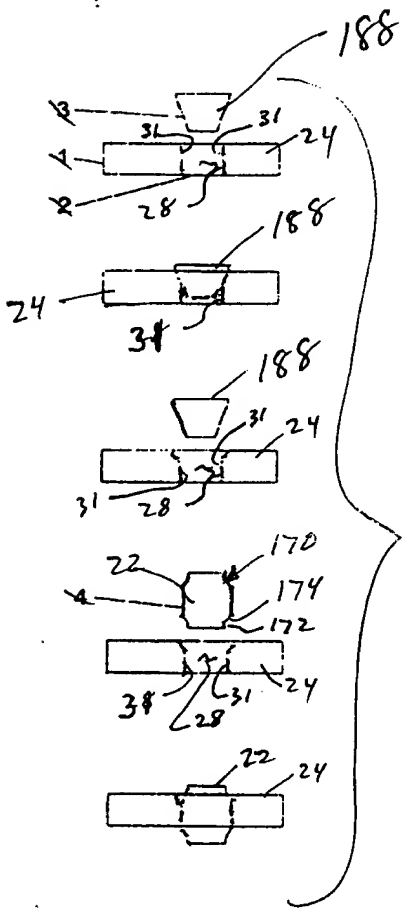

Figure 7~~6~~5

PCT/US00/33000

~~Fig 6~~

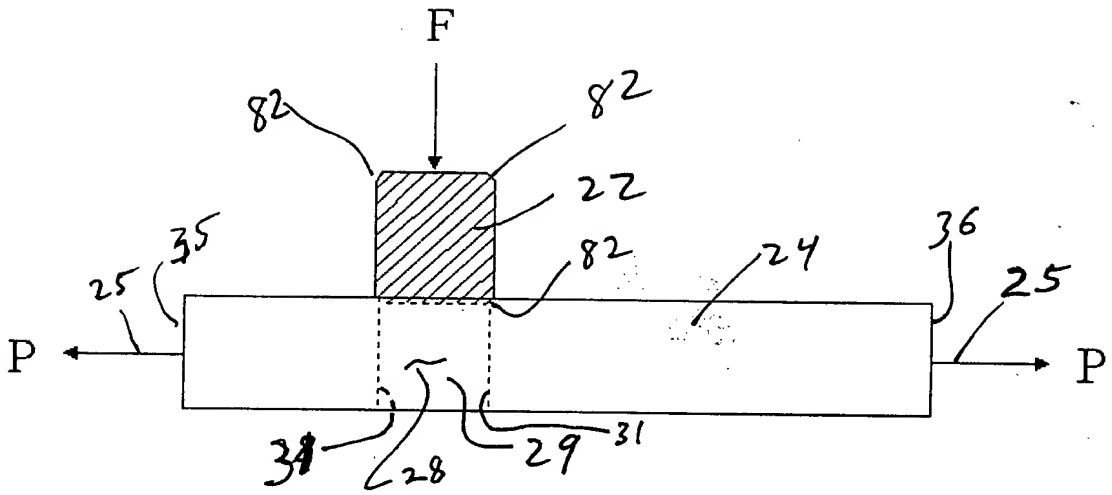

Figure 7#1

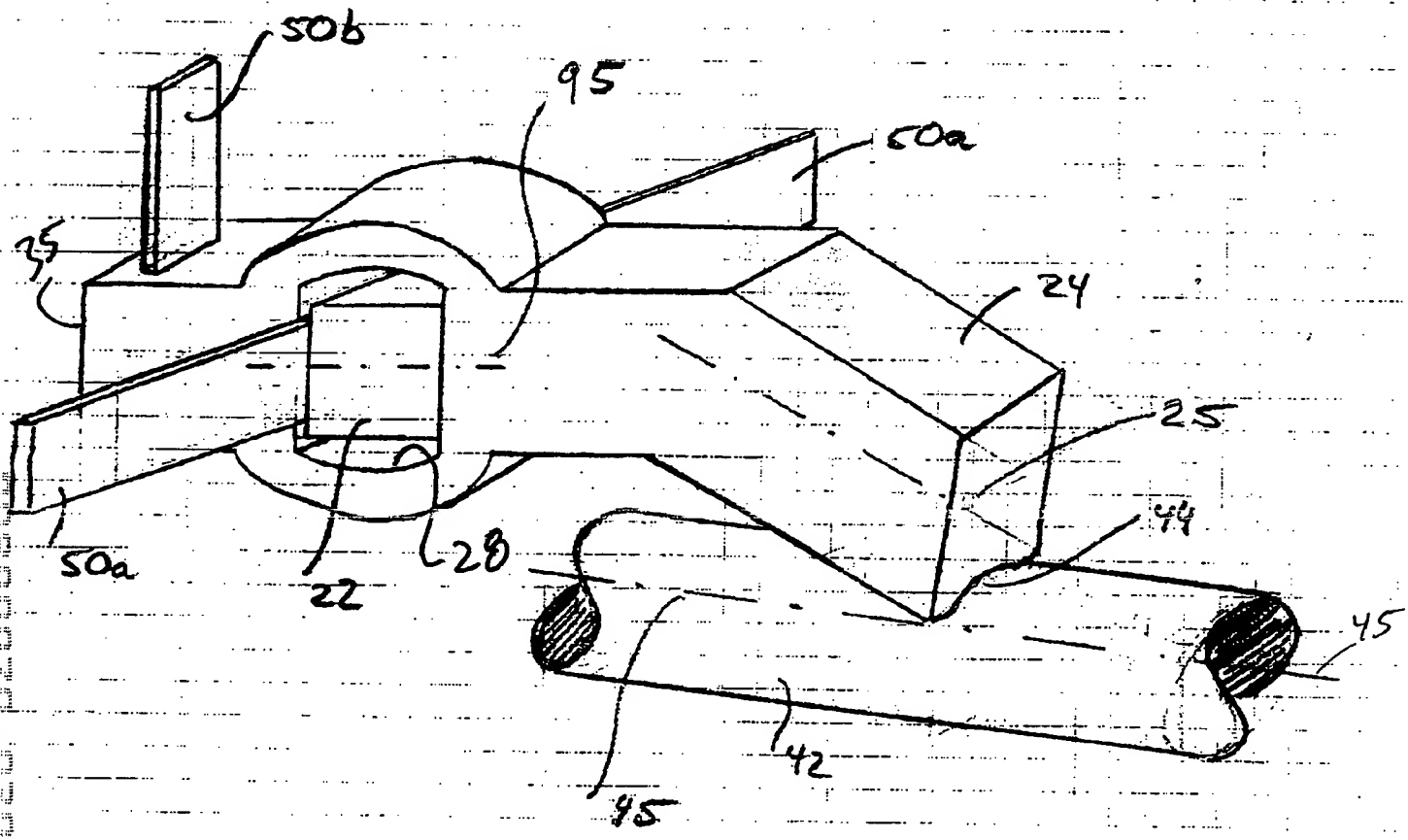

Figure 7B7

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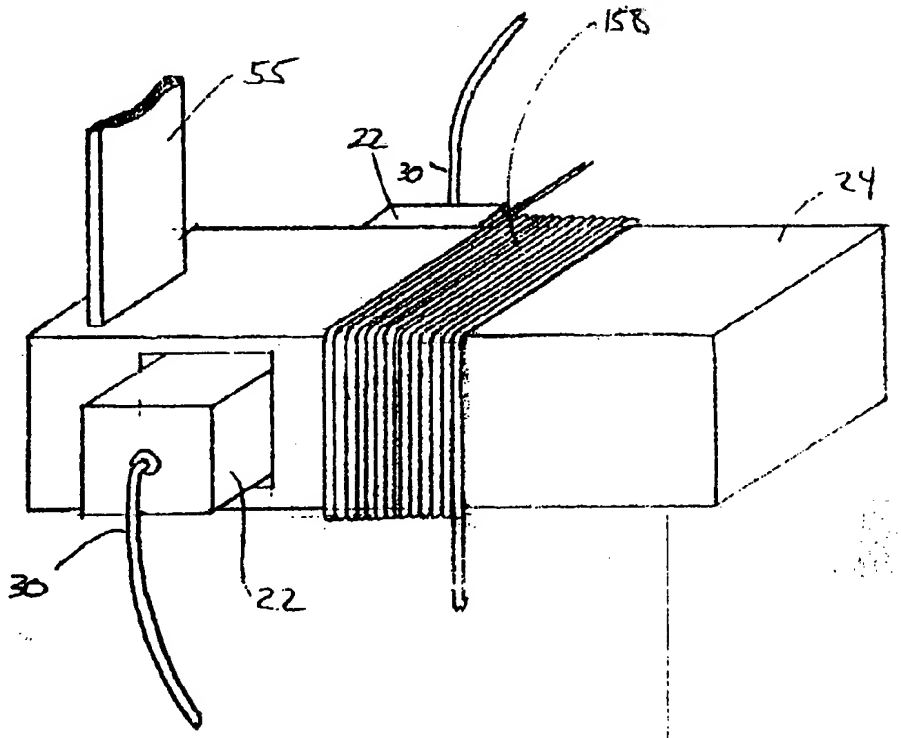

Figure 7B

T0820 E2600860

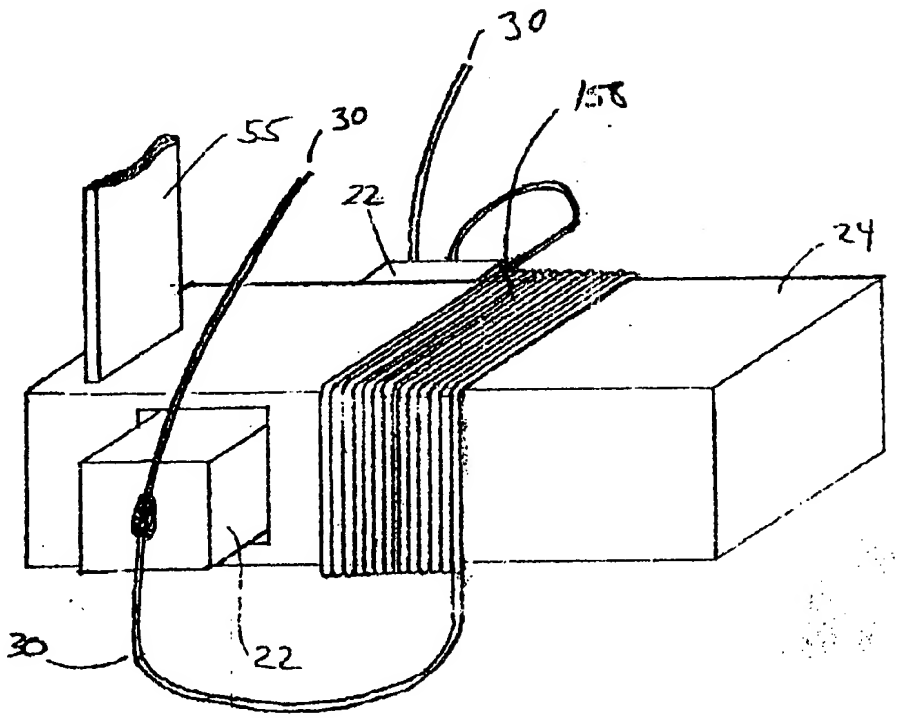

Figure # 79

T0800"6260860

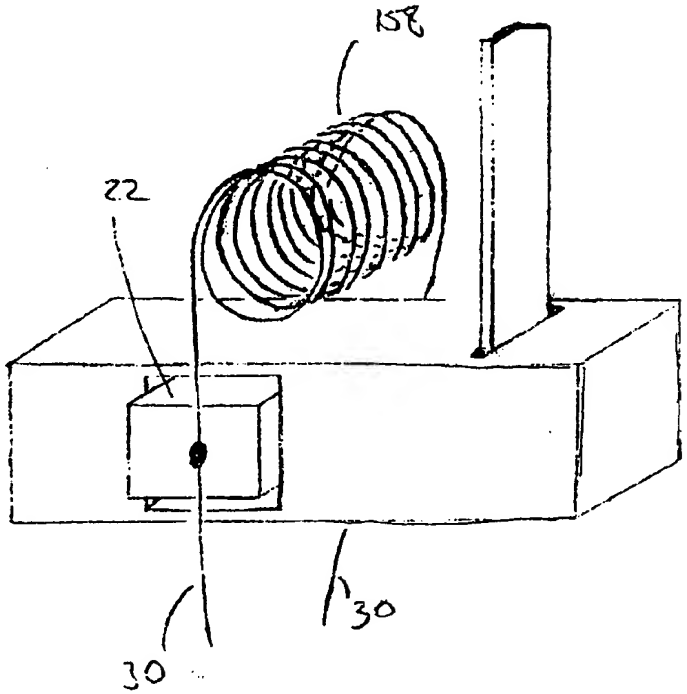

Figure 80

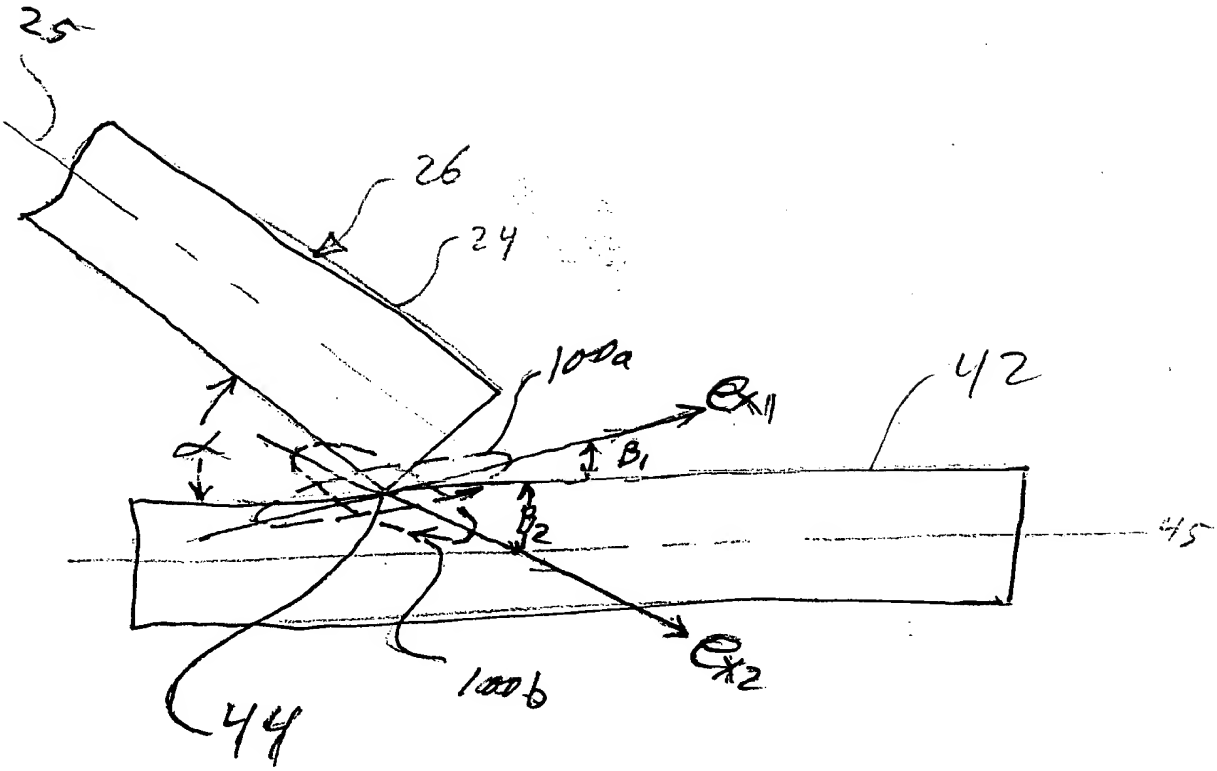

Figure 81